

RD 134



**SECOND QUARTER 2005
GROUNDWATER MONITORING
AND INTERIM REMEDIAL ACTION REPORT**

**FORMER VAL STROUGH CHEVROLET
327 34th STREET
OAKLAND, CALIFORNIA**

Prepared For:

Mr. Don Strough
Strough Family Trust of 1983
PO Box 489
Orinda, California 94563

Alameda County
NOV 16 2005

Prepared By:

ETIC Engineering, Inc.
1333 Broadway, Suite 1015
Oakland, California 94612

November 14, 2005



November 14, 2005

Mr. Don Strough
Strough Family Trust of 1983
PO Box 489
Orinda, CA 94563

RE: Strough Family Trust-327 34th Street, Oakland, California
Site ID# 3035

Dear Mr. Strough,

ETIC Engineering, Inc. is pleased to submit the enclosed copy of the *Third Quarter 2005 Groundwater Monitoring and Interim Remedial Action Report* for the above-referenced site. We have distributed additional copies of the report as noted below.

ETIC appreciates the opportunity to provide the Strough Family Trust of 1983 with environmental consulting services. If you have any questions or comments, please contact me at (510) 208-1600, extension 11.

Sincerely,
ETIC Engineering, Inc.

A handwritten signature in cursive script that reads "Katherine Brandt".

Katherine Brandt
Project Manager

Cc: Mr. Gregory Brandt, Esq., Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607
Mr. Jonathan Redding, Esq., Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607
Mr. Don Hwang, Hazardous Materials Specialist, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, California 94502-6577



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Katherine Brandt
Project Manager


Leslie Pawlak
Staff Geologist



Matthew Janowiak, R.G.
Senior Geologist



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SITE CONTACTS

Site Name: Former Val Strough Chevrolet

Site Address: 327 34th Street
Oakland, California

Consultant: ETIC Engineering, Inc.
1333 Broadway, Suite 1015
Oakland, California 94612
(510) 208-1600

ETIC Project Manager: Katherine A. Brandt

Regulatory Oversight: Don Hwang
Alameda County Health Care Services Agency (ACHCSA)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577
(510) 567-6746



1.0 INTRODUCTION

At the request of the Strough Family Trust of 1983, ETIC Engineering, Inc. has prepared this *Third Quarter 2005 Groundwater Monitoring and Interim Remedial Action Report* for the former Val Strough Chevrolet site located in Oakland, California. This report documents the procedures and findings of the 26 September 2005 groundwater monitoring event. This report summarizes the operation of the temporary High Vacuum Dual Phase Extraction (DPE) system at the site. Groundwater monitoring results, well construction details, and a groundwater monitoring plan are provided in the figures and tables. Groundwater monitoring protocols, field data, and analytical results are provided in the appendixes.

1.1 GENERAL SITE INFORMATION

Site name:	Former Val Strough Chevrolet
Site address:	327 34 th Street, Oakland, California
Current property owner:	Strough Family Trust of 1983
Current site use:	Automotive Dealership and Service Center
Current phase of project:	Groundwater monitoring, temporary DPE system operation
Tanks at site:	Two former tanks (1 gasoline, 1 waste-oil) removed in 1993
Number of wells:	7 (all onsite), DPE from wells MW2 and MW3

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

Site Location and Land Use: The former Val Strough Chevrolet site is an automobile dealership and service center located on the southwest corner of the intersection of Broadway (Auto Row) and 34th Street (see Figure 1). The site is an active Honda dealership. The property is located south of Interstate 580. Land use in the area is primarily commercial.

The site is located at an elevation of approximately 61 feet above mean sea level (Environmental Data Resources, Inc. [EDR], 2003), and topography slopes slightly toward the south. The site is located approximately 2 miles east of the San Francisco Bay. The nearest surface water body is Lake Merritt, which is located approximately 1 mile south of the site (see Figure 1).

Site Features: The site consists of a multi-story building with adjacent parking lot (see Figure 2). The former underground storage tanks (USTs) and fuel dispenser were located near the northwestern portion of the site. Seven monitoring wells and several soil borings are located at the site. Well construction details for the site wells are presented in Table 1.

Underground Utilities: A box culvert for a former tributary of Glen Echo Creek that drains to Lake Merritt is located beneath the parking lot near Broadway (see Figure 2). The box culvert consists of a reinforced concrete box measuring 5 feet by 6 feet. The depth of the top of the culvert is approximately 17 feet below ground surface (bgs). During the winter of 1983, a section of the culvert caved in and was replaced with a 5-foot-diameter pipe.

Other utilities at the site, namely sanitary sewer, electrical, and natural gas, are generally less than two feet bgs. A storm drain flows to the east along the northern border of 34th Street, approximately 40 feet north of the site, and is diverted into the box culvert. A sanitary sewer lateral from the site connects to a sanitary sewer line running beneath 34th Street approximately 40 feet north of the site. A second sanitary sewer line runs beneath the southern portion of the site building. These sanitary sewer lines connect to a main line which runs beneath Broadway. The natural gas service is located on the east side of the property. The water service appears to enter the site from the north.

Water Supply Well Search: The EDR Report (2003) indicated that there are no federal U.S. Geological Survey wells and no public water supply wells located within a 1-mile radius of the site. No water supply wells were identified by the Alameda County Department of Public Works within a ½-mile radius of the site.

2.2 SUMMARY OF PREVIOUS INVESTIGATIONS AND MONITORING ACTIVITIES

As presented in previous reports, the USTs were removed and multiple investigations, including installation of seven monitoring wells, were conducted. In addition, a routine groundwater monitoring program has been in place since 1993. The following summarizes the findings of these activities.

Site Hydrogeology: In general, the site is underlain by silt and clay to depths ranging from 15 to 20 feet bgs. Silty sand and fine-grained sand mixed with thin clay intervals are encountered from approximately 20 feet bgs to the total explored depth of 35 feet bgs.

Groundwater is typically measured at 17 to 23 feet bgs in the site wells. As shown in the modified rose diagram on Figure 2, the historic monitoring data indicate a prevailing groundwater flow direction toward the southwest, with an average hydraulic gradient of approximately 0.02 to 0.03 foot/foot. It should be noted that groundwater flow does not appear to be significantly influenced by underground utilities, including the box culvert (see Figure 2).

Primary Sources: Two USTs (one gasoline and one used oil) were located beneath the sidewalk along 34th Street on the north side of the property. A fuel dispenser was located inside the building (see Figure 2). These primary sources of hydrocarbons were removed from the site in 1993.

Constituents of Potential Concern: Based on the material stored in the USTs and the results of previous subsurface investigations at the site, the constituents of potential concern (COPCs) at the site include Total Petroleum Hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl t-butyl ether (MTBE). TPH as diesel (TPH-d) and TPH as motor oil (TPH-mo) are not routinely reported in groundwater samples and are considered secondary COPCs for the site.

Residual Source Area: Separate phase hydrocarbons (SPH) have been intermittently observed in wells MW2 and MW3, and elevated concentrations of TPH-g, BTEX, and MTBE are limited to the vadose and capillary fringe soils adjacent to the former UST and fuel dispenser, near these wells. These findings indicate that most of the residual hydrocarbon mass is localized near the former USTs and fuel dispenser, herein referred to as the source area.

Hydrocarbon Distribution in Groundwater: The hydrocarbon mass in groundwater within the source area is defined by wells MW2, MW3 and MW4. SPH has been historically observed only in monitoring wells MW2 and MW3 (see Table 2). Due to the SPH presence, groundwater has not been regularly sampled in source area wells MW2 and MW3 during most of the recent monitoring events. SPH has not been measured in nearby monitoring wells MW1 (approximately 50 feet east of MW2 and 50 feet northeast of MW3) and MW4 (approximately 50 feet southeast of MW3) (see Table 2). The relatively low and stable/decreasing concentrations reported in well MW4 define the extent of the source area.

The extent of dissolved hydrocarbons in groundwater is largely defined by downgradient and crossgradient monitoring wells MW5, MW6, and MW7, which show stable concentrations of TPH-g, BTEX, and MTBE over the last three years (see Table 2). Fuel oxygenates (Tertiary Amyl Methyl Ether, Ethyl Tertiary Butyl Ether, Di-Isopropyl Ether, and Tertiary Butyl Alcohol and Ethanol) and lead scavengers (Ethylene Dibromide and Ethylene Dichloride) were near or below reporting limits in previously analyzed grab groundwater samples for the site (see Table 3). These data suggest that hydrocarbons in groundwater are largely limited to within the property boundaries and that the plume is stable and has limited potential for offsite migration.

DPE Pilot Test: In March 2004, ETIC performed a DPE pilot test at the site. As summarized in the June 2004 *Dual Phase Extraction Pilot Test and Interim Remedial Action Plan* (DPE and IRAP Report), vacuum was applied to source area wells MW2 and MW3 while water and vacuum levels were observed in nearby monitoring wells. The DPE pilot test induced more than 1 foot of drawdown up to 50 feet from the extraction wells and an estimated radius of vacuum influence of 55 to 70 feet. Based on vapor flow rates and hydrocarbon concentrations in the vapor stream during the short-term pilot test, removal rates of approximately 90 pounds of hydrocarbons per day were estimated. These findings suggested that DPE from wells MW2 and MW3 can successfully remove hydrocarbons from the site subsurface and induce vacuum influence across the source area.

Interim Remedial Action: The DPE and IRAP Report (ETIC, 2004) described the planned reduction of residual petroleum hydrocarbon mass in the source area through temporary DPE system installation and operation. In brief, the remediation scheme consists of a liquid ring pump which applies high vacuum to source area wells MW2 and MW3 to extract soil vapor and groundwater simultaneously. A knockout vessel is used to separate the soil vapor and water streams and the extracted vapor is treated using a thermal oxidizer (with propane as a supplemental fuel); extracted water is treated using aqueous-phase granular activated carbon. The DPE system is currently operating and initial field readings indicate successful mass removal from the source area wells.

20 August 2004 ACHCSA Correspondence: In a 20 August 2004 correspondence, the ACHCSA provided general concurrence with the scope of work presented in the DPE Report and IRAP and requested performance of additional activities, including preparation of a work plan for source characterization and shallow soil remediation. In the 26 October 2004 *Technical Memorandum*, ETIC presented a review of site data and concluded that the source area was adequately characterized and that the planned DPE interim remedial action would address the shallow soil remediation requested by the ACHCSA.

4 February 2005 ACHSCA Correspondence: In a 4 February 2005 correspondence, the ACHCSA provided concurrence with initiation of DPE interim remedial activities and requested an Addendum to the Interim Remedial Action Plan for verification monitoring of DPE interim remediation. The following summarizes ETIC's response to this request.



During operation, hydrocarbon concentrations in vapor and water are anticipated to decline, resulting in reduction in mass removal rates. As mass removal rates near asymptotic levels, DPE operations will cease temporarily (2 to 4 weeks) to allow the subsurface to re-equilibrate. Following re-equilibration, the site data will be evaluated and if warranted the system will be restarted and operated until mass removal rates again near asymptotic levels. This process may be repeated. As described in ETIC's 24 June 2004 DPE Report and IRAP, the effectiveness of interim remedial action activities will be evaluated through multiple lines of evidence. The following provides a brief summary:

- Extracted water entering and exiting the carbon vessels will be analyzed on a biweekly basis to comply with EBMUD permit conditions and to evaluate carbon breakthrough. These data will also be used with groundwater extraction rates to evaluate mass removal rates in the aqueous phase.
- Extracted vapors entering and exiting the thermal oxidizer will be monitored using a photoionization detector (PID) on a weekly basis to comply with Bay Area Air Quality Management District (BAAQMD) permit conditions and determine the effectiveness of the treatment system. These data, along with monthly laboratory analyses of vapor samples, will be used with vapor extraction rates to evaluate mass removal rates in the vapor phase.
- Groundwater monitoring at the site, including extraction wells MW2 and MW3, will continue on a quarterly basis. Additional groundwater samples from these extraction wells will be collected intermittently to evaluate the effectiveness of the DPE system. The absence of SPH and declining hydrocarbon concentrations in these wells will also be used to evaluate the system effectiveness.

3.0 PROTOCOLS FOR GROUNDWATER MONITORING

The following sections of this report present information relevant to the methods employed during the collection of groundwater samples from site wells. The scope of work for the quarterly groundwater monitoring event at the site included:

- Checking for SPH in the wells.
- Gauging depth to groundwater in the wells.
- Purging wells to be sampled.
- Collecting and analyzing groundwater samples from scheduled wells with no observed SPH.
- Calculating the groundwater gradient and flow direction.
- Preparing this report summarizing the results of the monitoring event.

3.1 GROUNDWATER GAUGING

The wells were opened prior to gauging to allow the groundwater level to equilibrate with atmospheric pressure. The depth to groundwater and depth to SPH, if present, were then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements were made from a permanent reference point at the top of the well casing.

The groundwater elevation map (see Figure 2) for this monitoring event was constructed using depth-to-groundwater measurements collected during the current sampling event. Depth-to-groundwater measurements and calculated groundwater elevations are presented in Table 2. Field data forms are presented in Appendix B.

3.2 WELL PURGING

Approximately three well casing volumes of water were purged from each well (except MW2 and MW3 due to system operations) using a WaTerra inertial pump. Field parameters including pH, temperature, and electrical conductance were measured during purging. After purging and prior to sampling, the water level was checked to ensure that the well had recharged to at least 80 percent of its pre-purge water level. Field protocols are presented in Appendix A.

3.3 GROUNDWATER SAMPLING

After purging, groundwater in each well was sampled using dedicated tubing and a WaTerra inertial pump or a disposable bailer (MW2 and MW3). The samples were submitted to STL San Francisco of Pleasanton, California (STL), a state-certified laboratory. Groundwater analytical results and chain-of-custody documentation are presented in Appendix C.

4.0 MONITORING RESULTS

4.1 SEPARATE-PHASE HYDROCARBON MONITORING

Wells were monitored for the presence of SPH using a disposable bailer and/or interface probe. SPH was not observed in sampled monitoring wells.

4.2 GROUNDWATER ELEVATION AND GRADIENT

Groundwater elevations in the site wells during this monitoring event ranged from 43.07 feet above mean sea level (amsl) at well MW3 to 41.99 feet amsl at well MW5 (see Figure 2). Based on the depth of the stingers, the groundwater elevations were approximately 43.02 feet amsl and 43.07 feet amsl in extraction wells MW2 and MW3, respectively. Groundwater elevations show the localized influence of the DPE system operation (see Figure 2). The groundwater gradient is approximately 0.01 and flow direction is towards the southwest. At the request of the ACHCSA, a rose diagram depicting historic groundwater gradient and direction is also presented on Figure 2.

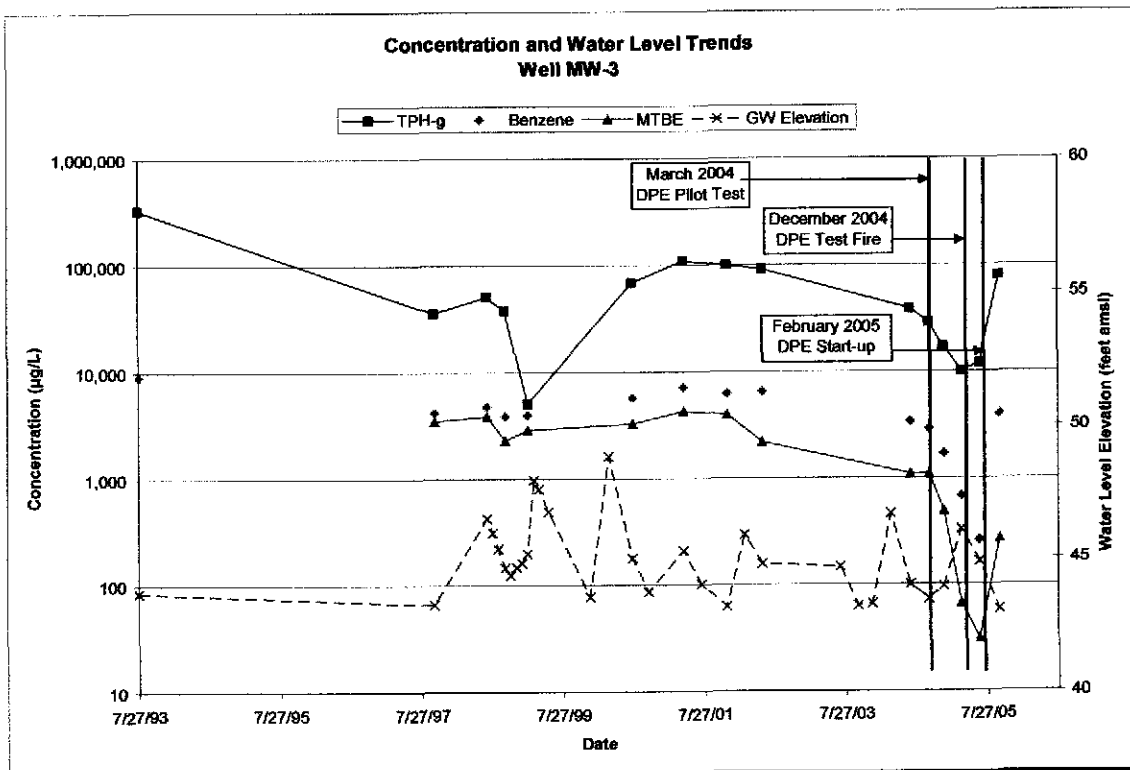
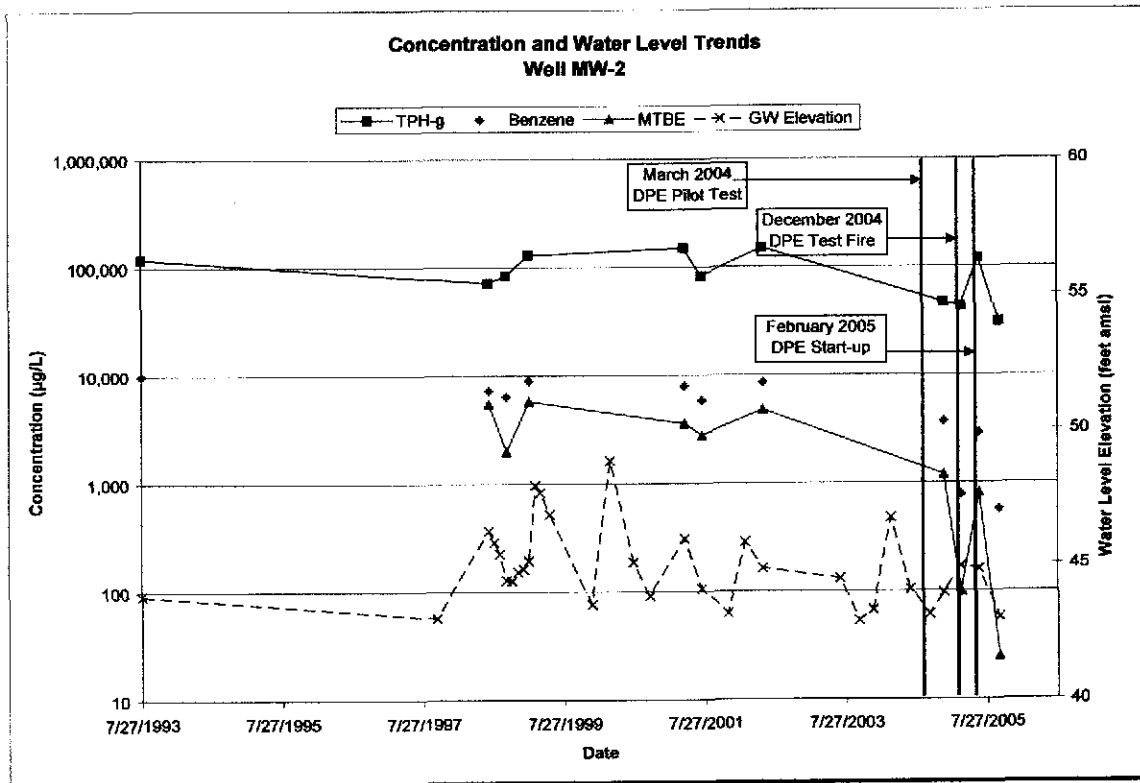
4.3 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from wells MW1, MW2, MW3, and MW4. Samples were analyzed by STL for TPH-g, BTEX, and MTBE by EPA Method 8260B. TPH-d with Silica Gel Clean-up and TPH-mo were analyzed by modified EPA Method 8015. Analytical results for this and prior monitoring events are presented in Table 2. Analytical results for this monitoring event are presented on Figure 3.

4.4 FINDINGS OF GROUNDWATER MONITORING

The following observations are made comparing the results of the September 2005 monitoring event with the results of the previous monitoring events. Note that the DPE system was operational from 23 February 2005.

- SPH was not detected in site monitoring wells during the September 2005 monitoring event. The last time that SPH was observed was during the December 2004 monitoring event, when SPH was observed in wells MW2 (1/4-inch thickness) and MW3 (sheen).
- Compared to the previous quarter, concentrations of TPH-g have increased from 23,000 µg/L to 79,000 µg/L in MW3, and from 540 µg/L to 960 µg/L in MW4. The increase in concentration can be attributed to the shut down of MW3 to increase well MW2 efficiency. TPH-g concentrations decreased from 120,000 µg/L to 31,000 µg/L in MW2. BTEX concentrations ranged from 570 µg/L to 6,200 µg/L in well MW2 and from 1,900 µg/L to 17,000 µg/L in well MW3.
- MTBE concentrations ranged from <0.50 µg/L in well MW1 to 660 µg/L in well MW4. MTBE has increased in MW3, and has decreased in MW2 and MW4; MTBE has remained below laboratory detection limits in MW1.
- TPH-d concentrations of 63,000 µg/L (MW2), 5,100 µg/L (MW3), and <50 µg/L (MW1 and MW4) were reported.
- TPH-mo concentrations of 28,000 µg/L (MW2), 540 µg/L (MW3) and <500 µg/L (MW1 and MW4) were reported.



5.0 INTERIM REMEDIAL ACTION SUMMARY

5.1 DPE SYSTEM OPERATIONAL STATUS

Permits: Appropriate BAAQMD and East Bay Municipal Utility District (EBMUD) discharge permits have been acquired. The City of Oakland Building and Fire Departments have inspected and approved the temporary remediation system construction.

System Construction: Wells MW2 and MW3 are connected to the DPE unit via underground piping. The DPE unit consists of a liquid-ring pump, knock-out vessel, and thermal oxidizer. Propane is used as a supplemental fuel for the thermal oxidizer. Temporary system installation was completed in December 2004.

Operational Status: The DPE unit was initially "test fired" in December 2004 once construction was complete. Based on data collected during initial operation, the DPE unit required modifications for more efficient operation. The motor was replaced in February 2005 and the system began operation on 23 February 2005.

5.2 DPE SYSTEM PERFORMANCE

- Since December 2004, the system has been operational for approximately 152 days or 71%. MW3 was shut off (July 15, 2005) due to over production of water.
- Influent concentrations of TPH-g in groundwater decreased from 13,000 µg/L (6/9/05) to 10,000 µg/L (9/6/05) during the quarter (see Table 4).
- The DPE system has extracted a total of 540,516 gallons of groundwater at an average flow rate of 2.5 gallons per minute (gpm) since operation began (see Table 6).
- Approximately 91.8 pounds of TPH-g and 1.9 pounds of benzene are estimated to have been removed in the aqueous phase during the operation of the DPE system (see Table 6).
- Influent concentrations of TPH-g in vapor ranged from 1,300 parts per million by volume (ppmv) (7/11/05) to 870 ppmv (8/15/05) during the operation of the DPE system (see Table 5). The average system vapor flow rate was 29 cubic feet per minute (CFM) (see Table 7).
- The thermal oxidizer vapor treatment system has typically removed hydrocarbons at greater than 99% efficiency. The efficiency calculations are summarized in Table 7, and are based on laboratory analytical results of bag samples collected on a monthly basis.
- Approximately 5,671 pounds of TPH-g and 67 pounds of benzene are estimated to have been removed in the vapor phase during the operation of the DPE system (see Table 7). These mass removal calculations are based on influent vapor samples typically collected soon after the system was restarted following temporary shutdown events. Because influent concentrations typically decline during system operation (i.e. higher concentrations soon after startup or restart), these estimates likely represent the maximum mass removed.



5.3 DPE SYSTEM PERFORMANCE EVALUATION

The DPE system continues recovering significant mass of vapor phase hydrocarbons; however the system does not operate efficiently while simultaneously extracting from two wells. MW3 was taken offline 15 July 2005 to increase the hydrocarbon mass recovery. Based on the data, longer than anticipated operation of the system may be required to remove the mass and/or the installation of a 4-inch extraction well, between wells MW2 and MW3, designed specifically to increase the amount of mass removed.

6.0 PLANNED SITE ACTIVITIES

6.1 INTERIM REMEDIAL ACTION

ETIC recommends the following:

- Continue operating the DPE system until influent concentrations approach near asymptotic levels. Sample the system concentrations for water and vapor on a monthly basis to evaluate the effectiveness of the DPE system. These data will be used to calculate mass removal rates and system efficiency.
- Once influent concentrations near asymptotic levels, shut down the system and evaluate rebound concentrations in the extraction wells; and when mass removal rates diminish and/or hydrocarbon concentration rebound is limited, submit a request for site closure.
- Evaluate the need for an additional extraction well in the source area to expedite the clean-up process.

6.2 MONITORING ACTIVITIES

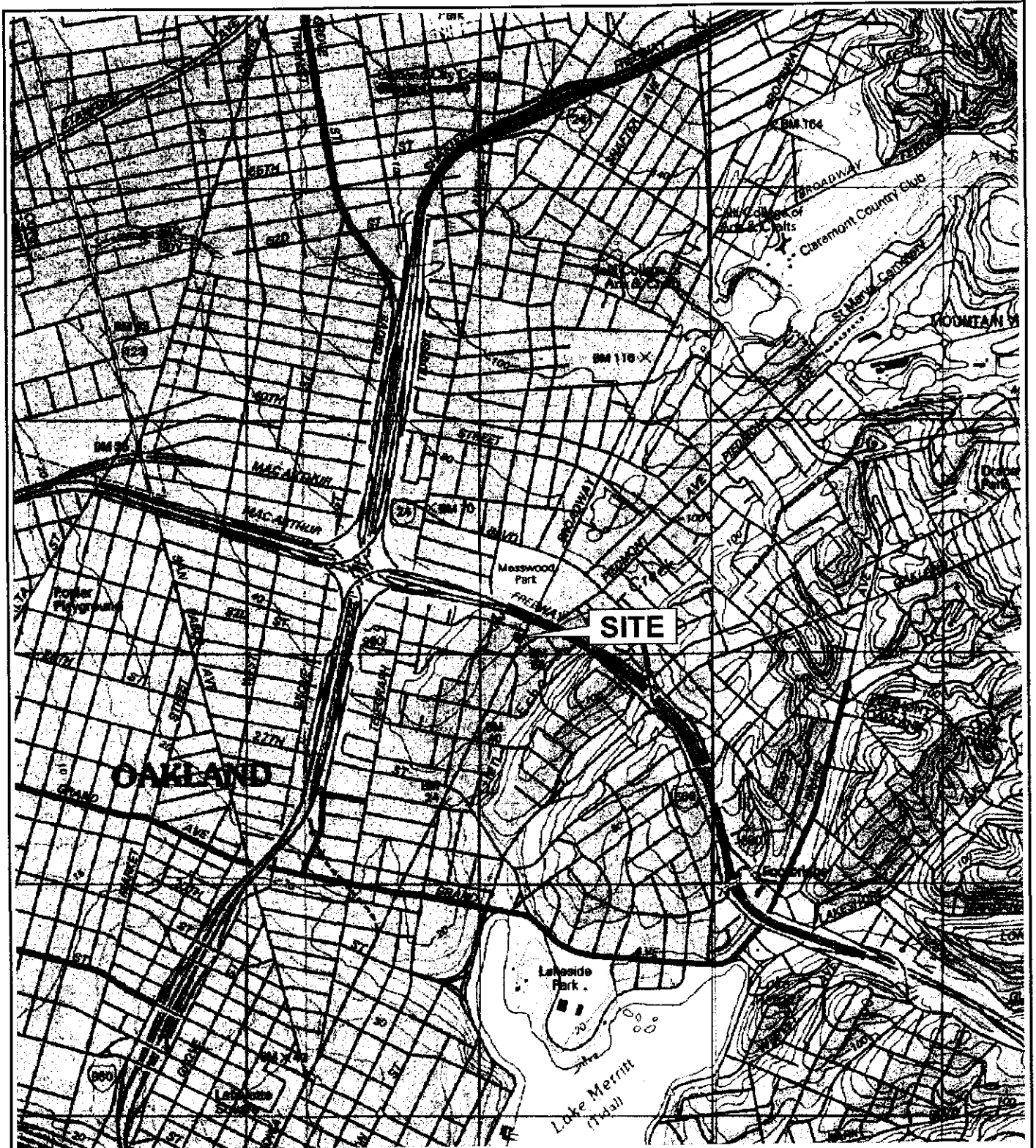
The next quarterly monitoring event is currently scheduled for mid-December 2005. Groundwater will be monitored in accordance with the groundwater monitoring schedule presented in Table 8.



7.0 REFERENCES

- Alameda County Health Care Services Agency. 2004. Fuel Leak Case No. RO0000134, Val Strough Chevrolet, 327-34th St., Oakland, California. August 20.
- Alameda County Health Care Services Agency. 2005. Fuel Leak Case No. RO0000134, Val Strough Chevrolet, 327-34th St., Oakland, California. February 4.
- Environmental Data Resources. 2003. EDR Radius Map with GeoCheck, Strough Family Trust, 327 34th Street, Oakland, California. September 10.
- ETIC Engineering, Inc. 2003. Supplemental Site Investigation Workplan, Fuel Case No. RO0000134, Val Strough Chevrolet, 327 34th Street, Oakland, California. September 17.
- ETIC Engineering, Inc. 2003. Third Quarter 2003 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. October.
- ETIC Engineering, Inc. 2004. Supplemental Site Investigation Report and Dual-Phase Extraction Pilot Test Workplan, Strough Family Trust of 1983, 327 34th Street, Oakland, California. February.
- ETIC Engineering, Inc. 2004. First Quarter 2004 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. May .
- ETIC Engineering, Inc. 2004. Dual Phase Extraction Pilot Test Report and Interim Remedial Action Plan, Strough Family Trust of 1983, Former Val Strough Chevrolet, 327 34th Street, Oakland, California. June.
- ETIC Engineering, Inc. 2004. Second Quarter 2004 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. August.
- ETIC Engineering, Inc. 2004. Response to Technical Comments, Strough Family Trust of 1983, 327 34th Street, Oakland, California. October.
- ETIC Engineering, Inc. 2004. Third Quarter 2004 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. October.
- ETIC Engineering, Inc. 2005. Fourth Quarter 2004 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. March.

Figures



Scale (feet)

FILENAME: CM_SEPT2005.DWG 10/28/2005



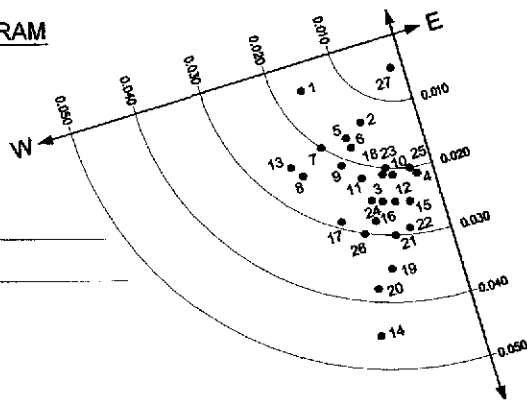
SITE LOCATION MAP
 VAL STROUGH CHEVROLET
 327 34TH STREET
 OAKLAND, CALIFORNIA

FIGURE:

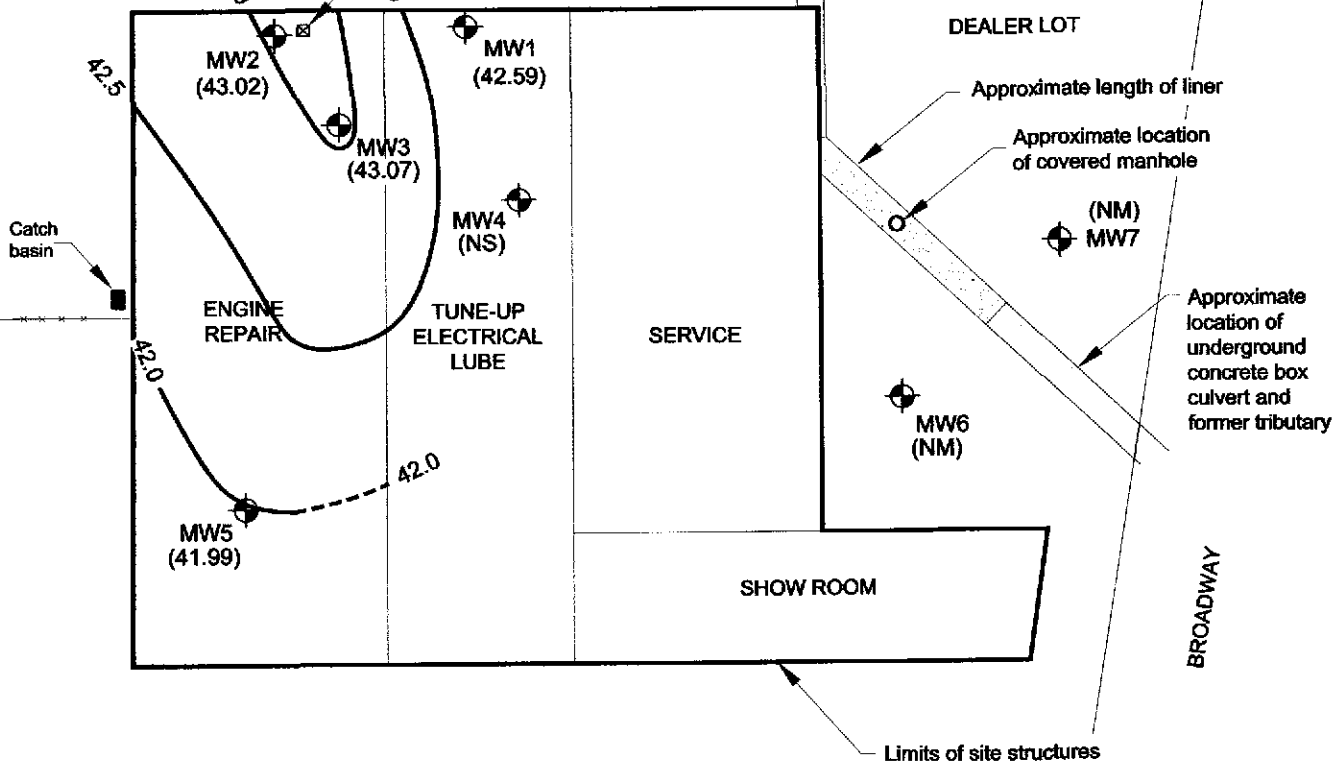
1

ROSE DIAGRAM

● Historical



34TH STREET
 Former Gasoline UST
 Former location of dispenser pump
 Former Waste-Oil UST



LEGEND:



Groundwater monitoring well



Groundwater elevation contour

NS Not surveyed

NM Not Measured



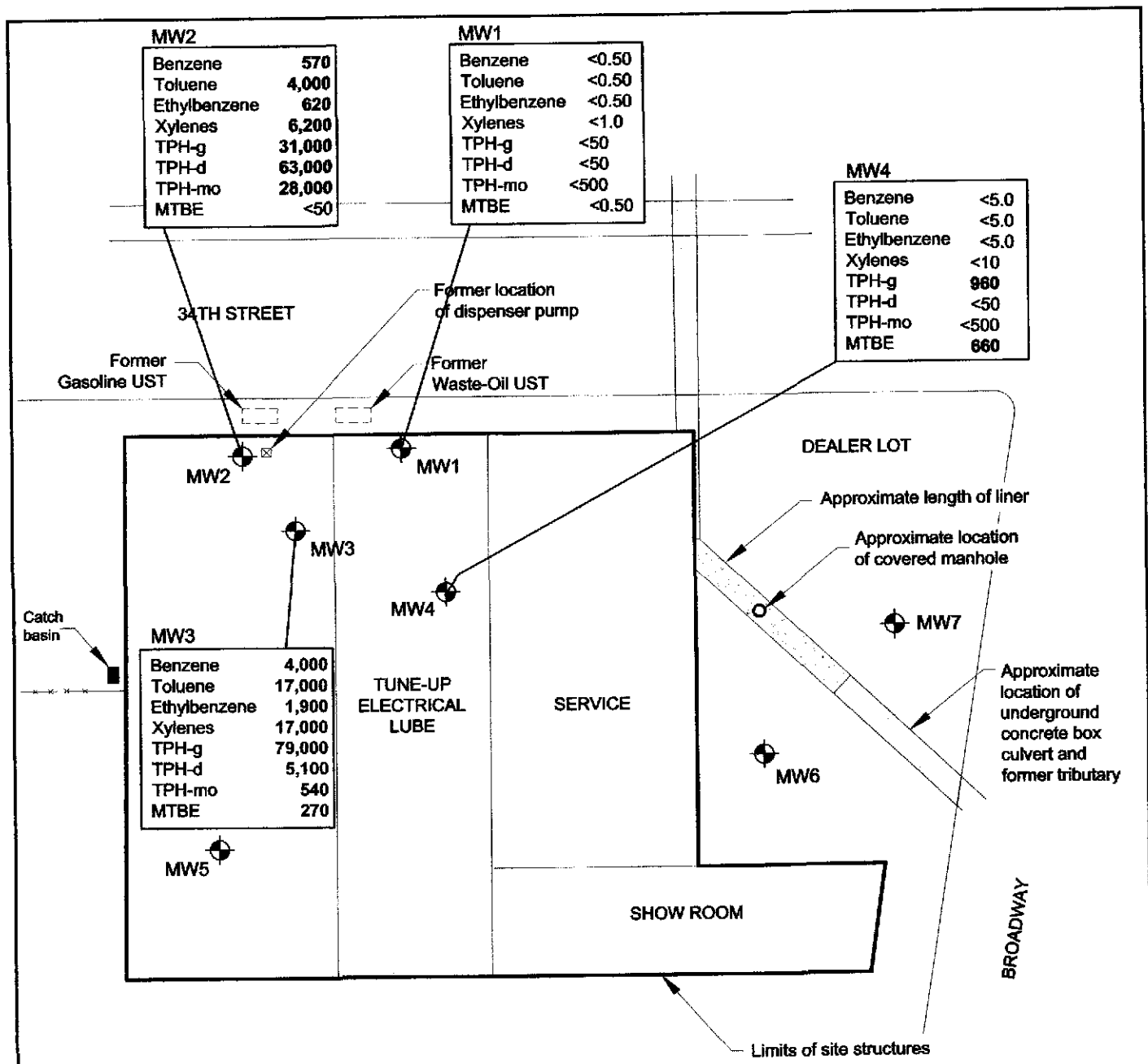
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SEPTEMBER 2005 GROUNDWATER CONTOUR MAP AND ROSE DIAGRAM
 FORMER VAL STROUGH CHEVROLET
 327 34TH STREET
 OAKLAND, CALIFORNIA

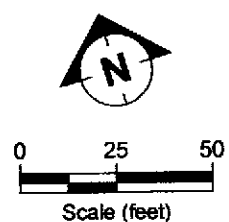
FIGURE:

2



LEGEND:

-  Groundwater monitoring well
- TPH-g Total Petroleum Hydrocarbons as gasoline
- TPH-d Total Petroleum Hydrocarbons as diesel
- TPH-mo Total Petroleum Hydrocarbons as motor oil
- MTBE Methyl Tertiary Butyl Ether



All concentrations are reported in micrograms per liter (ug/L)

FIGURE: **3**



SEPTEMBER 2005 GROUNDWATER ANALYTICAL DATA
 FORMER VAL STROUGH CHEVROLET
 327 34TH STREET
 OAKLAND, CALIFORNIA

FILENAME: 0M_SEPT2005.DWG 10/28/2005

Tables

TABLE 1 WELL CONSTRUCTION DETAILS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well ID	Well Installation Date	Top-of-Casing Elevation ^a (feet)	Casing Material	Total Depth of Borehole (ft bgs)	Casing Diameter (inches)	Screened Interval (ft bgs)	Slot Size (inches)	Filter Pack Interval (ft bgs)	Filter Pack Material
MW1	07/19/93	64.69	PVC	32	2	17-32	0.020	15-32	Gravel Pack
MW2	07/20/93	65.95	PVC	33	2	18-33	0.020	16-33	Gravel Pack
MW3	07/20/93	65.99	PVC	34	2	18-34	0.020	16-34	Gravel Pack
MW4	06/26/98	63.35	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW5	06/26/98	65.59	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW6	07/17/00	59.60	PVC	31.5	2	10-30	0.020	8-30	Lonestar #3 Sand
MW7	07/17/00	59.47	PVC	36.5	2	15-35	0.020	13-35	Lonestar #3 Sand

a Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.
PVC Polyvinyl chloride.
ft bgs Feet below ground surface.

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-PO ₄
MW1	07/27/93	100.00	a 20.79	79.21	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	--	--	--	--	--	--	--	--	--	--	--	--
MW1	10/02/97	100.00	a 21.22	78.78	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<2.0	--	--	--	--	--	--	--	--	--	--
MW1	06/30/98	100.00	a 18.21	81.79	0.00	<0.50	<0.50	2.1	0.6	84	--	--	2.1	204	5	6.16	0.15	0.046	55	<0.10	<0.10	2	
MW1	07/29/98	100.00	a 18.74	81.26	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	08/26/98	100.00	a 19.28	80.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	10/01/98	100.00	a 19.93	80.07	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	192	3.6	6.49	--	--	--	--	--	--	
MW1	10/30/98	100.00	a 20.22	79.78	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	11/30/98	100.00	a 19.99	80.01	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	12/28/98	100.00	a 19.81	80.19	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	01/25/99	100.00	a 19.62	80.38	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	389	3.4	6.72	--	--	--	--	--	--	
MW1	02/26/99	100.00	a 17.18	82.82	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	03/24/99	100.00	a 17.28	82.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	05/12/99	100.00	a 17.91	82.09	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	12/15/99	100.00	a 21.01	78.99	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--	3.31	6.52	--	--	--	--	--	--	
MW1	03/20/00	100.00	a 16.25	83.75	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	07/20/00	100.00	a 19.63	80.37	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	3.4	120	7.37	6.66	0.13	<0.01	54	<0.10	3.4	<0.2	
MW1	10/11/00	100.00	a 20.80	79.20	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	04/10-11/01	100.00	a 18.81	81.19	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	1.2	117	NR	NR	<0.10	0.045	57	<0.10	6.6	0.15	
MW1	07/10/01	100.00	a 20.51	79.49	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	11/20/01	64.69	b 21.36	43.33	0.00	<0.50	1.3	<0.50	0.81	<50	<50	<300	<2.0	1 ^c	0.65	6.47	0.32	1.8	63	<0.10	--	<0.20	
MW1	02/19/02	64.69	b 18.95	45.74	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	05/21/02	64.69	b 19.82	44.87	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	120	0.96	6.25	<0.10	0.5	58	<0.10	5.5	<0.20	
MW1	06/27/03	64.69	b 19.93	44.76	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	09/29/03	64.69	b 21.24	43.45	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	--	--	--	--	--	--	--	
MW1	12/12/03	64.69	b 21.27	43.42	0.00	<0.50	<0.50	<0.50	1.1	<50	58	<500	<0.50	--	--	--	--	--	--	--	--	--	
MW1	03/15/04	64.69	b 18.18	46.51	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	0.14	--	--	--	--	--	--	--	
MW1	06/24/04	64.69	b 20.48	44.21	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	0.15	--	--	--	--	--	--	--	
MW1	09/29/04	64.69	b 21.37	43.32	0.00	<0.50	0.51	<0.50	<1.0	<50	<50	<500	<0.50	--	1.01	6.42	--	--	--	--	--	--	
MW1	12/13/04	64.69	b 20.63	44.06	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	03/14/05	64.69	b 18.69	46.00	0.00	<0.50	<0.50	<0.50	<1.0	<50	73	<500	<0.50	--	1.96	6.04	--	--	--	--	--	--	
MW1	06/15/05	64.69	b 20.32	44.37	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	09/26/05	64.69	b 22.10	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	1	<50	<500	<0.50	--	1.84	317.4	6.43	--	--	--	--	
MW2	07/27/93	101.27	a 22.10	79.17	0.00	10,000	27,000	2,900	20,000	120,000	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	10/02/97	101.27	a 22.91	78.36	0.43	*	*	*	*	*	--	--	*	--	--	--	--	--	--	--	--	--	
MW2	06/30/98	101.27	a 19.69	81.58	0.45	7,300	18,000	2,500	15,600	72,000	--	--	5,500	185	2.2	5.98	--	--	--	--	--	--	
MW2	07/29/98	101.27	a 20.11	81.16	0.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	08/26/98	101.27	a 20.54	80.73	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	10/01/98	101.27	a 21.52	79.75	0.42	6,400	17,000	2,600	17,000	84,000	--	--	2,000	--	2.7	6.47	--	--	--	--	--	--	
MW2	10/30/98	101.27	a 21.54	79.73	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	11/30/98	101.27	a 21.21	80.06	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	12/28/98	101.27	a 21.10	80.17	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	01/25/99	101.27	a 20.80	80.47	0.01	9,000	26,000	3,800	27,500	130,000	--	--	5,800	386	0.3	6.69	--	--	--	--	--	--	
MW2	02/26/99	101.27	a 18.00	83.27	sheen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	03/24/99	101.27	a 18.27	83.00	trace	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	05/12/99	101.27	a 19.08	82.19	trace	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)									
						Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-PO ₄
MW2	12/15-16/99	101.27	a 22.42	78.85	0.025	*	*	*	*	*	*	*	*	--	*	*	--	--	--	--	--	--	--
MW2	03/20/00	101.27	a 17.09	84.18	0.026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	07/20/00	101.27	a 20.86	80.41	0.017	*	*	*	*	*	*	*	*	*	0.88	6.37	*	*	*	*	*	*	
MW2	10/11/00	101.27	a 22.10	79.17	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	04/10-11/01	101.27	a 19.98	81.29	0.00	8,000	22,000	2,600	23,500	150,000	1,500	<600	3,600	168	NR	NR	3.1	2.5	16	0.14	0.19	<0.20	
MW2	07/10/01	101.27	a 21.85	79.42	0.00	5,900	15,000	2,300	12,100	83,000	5,700	<1,500	2,800	--	--	--	--	--	--	--	--	--	
MW2	11/20/01	65.95	b 22.75	43.20	0.00	--	--	--	--	--	--	--	--	120	NR	6.15	1.8	2	16	<0.10	--	<0.20	
MW2	02/19/02	65.95	b 20.12	45.83	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	05/21/02	65.95	b 21.10	44.85	0.00	8,600	25,000	3,500	26,000	150,000	31,000	<3,000	4,800	160	0.88	5.99	3.9	1.7	13	<0.10	0.54	<0.20	
MW2	06/27/03	65.95	b 21.48	44.47	0.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	09/29/03	65.95	b 23.04	42.91	0.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^g	12/12/03	65.95	b 22.75	43.31	0.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^g	03/15/04	65.95	b 19.24	46.72	0.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^g	06/24/04	65.95	b 22.10	44.06	0.31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^g	09/29/04	65.95	b 22.81	43.14	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^g	12/13/04	65.95	b 22.06	43.95	0.08	3,700	12,000	1,900	10,000	47,000	2,600	<500	1,200	--	0.27	6.63	*	*	*	*	*	*	
MW2 ^l	03/14/05	65.95	b 25.00	40.95	0.00	780	3,700	920	6,400	43,000	43,000	<5,000	<200	--	--	--	--	--	--	--	--	--	
MW2	06/15/05	65.95	b 21.14	44.81	0.00	2,900	15,000	2,400	22,000	120,000	13,000	<2,500	810	3.05	-147.6	--	--	--	--	--	--	--	
MW2	07/18/05	65.95				2,700	13,000	1,800	15,000	120,000	17,000		530										
MW2	09/26/05	65.95	22.93	43.02	0.00	570	4,000	620	6,200	31,000	63,000	28,000	k	<50									
MW3	07/27/93	101.29	a 22.28	79.01	0.02	9,100	24,000	5,300	33,000	330,000	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	10/02/97	101.29	a 22.71	78.58	0.03	4,200	11,000	1,800	10,600	36,000	--	--	3,500	--	--	--	--	--	--	--	--	--	
MW3	06/30/98	101.29	a 19.47	81.82	0.00	4,800	11,000	1,200	7,100	51,000	--	--	3,900	300	2	6.03	1.4	9.8	13	1.4	<0.10	2.4	
MW3	07/29/98	101.29	a 20.01	81.28	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	08/26/98	101.29	a 20.62	80.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	10/01/98	101.29	a 21.33	79.96	0.00	3,900	8,500	1,200	6,000	38,000	--	--	2,300	240	2	6.65	--	--	--	--	--	--	
MW3	10/30/98	101.29	a 21.62	79.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	11/30/98	101.29	a 21.31	79.98	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	12/28/98	101.29	a 21.15	80.14	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	01/25/99	101.29	a 20.79	80.50	0.00	4,000	10,000	1200	6700	5,100	--	--	2900	238	1	7.01	--	--	--	--	--	--	
MW3	02/26/99	101.29	a 18.02	83.27	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	03/24/99	101.29	a 18.37	82.92	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	05/12/99	101.29	a 19.22	82.07	0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	12/15-16/99	101.29	a 22.43	78.86	0.00	*	*	*	*	*	*	*	*	*	*	*	--	--	--	--	--	--	
MW3	03/20/00	101.29	a 17.14	84.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	07/20/00	101.29	a 20.98	80.31	0.00	5,700	14,000	1,600	9,300	69,000	2,900	<300	3,300	128	2.05	6.73	3.9	6.6	20	<0.10	0.55	<0.20	
MW3	10/11/00	101.29	a 22.24	79.05	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	04/10-11/01	101.29	a 20.70	80.59	0.00	7,200	<0.001	2,300	12,900	110,000	4,700	<1,500	4,300	137	NR	NR	1	6	8.2	<0.10	0.13	<0.20	
MW3	07/10/01	101.29	a 21.97	79.32	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	11/20/01	65.99	b 22.80	43.19	0.00	6,300	16,000	2,400	14,900	100,000	5,900	<900	4,000	120	2.93	6.67	0.84	12	31	<0.10	--	<0.20	
MW3	02/19/02	65.99	b 20.11	45.88	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	05/21/02	65.99	b 21.20	44.79	0.00	6,500	17,000	2,200	12,700	91,000	14,000	<3,000	2,200	130	1.01	6.62	4.2	9.6	25	<0.10	0.77	<0.20	
MW3	06/27/03	65.99	b 21.32	44.67	sheen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	09/29/03	65.99	b 22.79	43.20	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW3 ^g	12/12/03	65.99	b 22.73	43.27	0.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW3 ^g	03/15/04	65.99	b 19.32	46.67	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)										
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-PO ₄	
MW3	06/24/04	65.99	b 21.99	44.00	0.00	3,400	7,700	1,000	4,800	39,000	1,700	<500	1,100	--	0.07	--	--	--	--	--	--	--	--	--
MW3	09/29/04	65.99	b 22.54	43.45	0.00	2,900	6,700	980	4,300	29,000	2,200	<500	1,100	--	0.80	6.42	--	--	--	--	--	--	--	--
MW3	12/13/04	65.99	b 22.06	43.93	0.00	1,700	2,900	790	3,400	17,000	1,300	<500	490	--	0.16	6.7	--	--	--	--	--	--	--	--
MW3 ^j	03/14/05	65.99	b 24.00	41.99	0.00	680	1,700	380	1,600	10,000	670	<500	67	--	--	--	--	--	--	--	--	--	--	--
MW3	06/15/05	65.99	b 21.13	44.86	0.00	260	960	330	1,400	12,000	1,200	<500	31	--	1.93	-150.4	--	--	--	--	--	--	--	--
MW3	07/18/05	65.99	b	65.99	0.00	1,000	5,600	1,100	4,300	23,000	1,700		81	--	--	--	--	--	--	--	--	--	--	--
MW3	09/26/05	65.99	b 22.92	43.07	0.00	4,000	17,000	1,900	17,000	79,000	5,100	540	k 270	--	--	--	--	--	--	--	--	--	--	--
MW4	06/30/98	98.65	a 16.93	81.72	0.00	2,200	930	850	2,100	10,000	--	--	1,800	222	2.6	6.18	0.14	4.3	14	0.8	0.8	1.5		
MW4	07/29/98	98.65	a 17.48	81.17	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	08/26/98	98.65	a 18.65	80.00	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	10/01/98	98.65	a 18.74	79.91	0.00	570	46	130	36	1,100	--	--	1,300	320	3.4	<0.001	--	--	--	--	--	--	--	--
MW4	10/30/98	98.65	a 19.02	79.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	11/30/98	98.65	a 18.74	79.91	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	12/28/98	98.65	a 18.60	80.05	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	01/25-26/99	98.65	a 18.32	80.33	0.00	230	<8.3	<8.3	<8.3	290	--	--	1,300	475	6.7	7	--	--	--	--	--	--	--	--
MW4	02/26/99	98.65	a 15.81	82.84	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	03/24/99	98.65	a 16.01	82.64	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	05/12/99	98.65	a 17.71	80.94	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	12/15-16/99	98.65	a 19.83	78.82	0.00	5.8	<0.50	<0.50	<0.50	<50	--	--	1,400	--	1.75	7.02	--	--	--	--	--	--	--	--
MW4	03/20/00	98.65	a 14.9	83.75	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	07/20/00	98.65	a 18.38	80.27	0.00	91	4.6	19	12.9	210	<50	<300	1,500	126	3.88	6.67	9.5	5.3	11	<0.10	0.04	<0.20		
MW4	10/11/00	98.65	a 19.61	79.04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	04/10-11/01	98.65	a 17.55	81.10	0.00	110	<5.0	<5.0	<5.0	350	<50	<300	1,100	107	NR	NR	0.8	6.3	10	<0.10	<0.05	<0.20		
MW4	07/10/01	98.65	a 19.34	79.31	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	11/20/01	63.35	b 20.16	43.19	0.00	<2.5	4	<2.5	3.7	96	<50	<300	2,500	130	0.83	6.51	1.6	10	11	<0.10	--	<0.20		
MW4	02/19/02	63.35	b 17.34	46.01	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	05/21/02	63.35	b 18.57	44.78	0.00	340	5.7	70	<1.0	940	83	<300	1,600	150	1.65	6.32	3.1	8.4	9	<0.10	0.06	<0.20		
MW4	06/27/03	63.35	b 18.72	44.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	09/29/03	63.35	b 20.11	43.24	0.00	<5.0	<5.0	<5.0	<10	1,100	<50	d <500	1,700	--	--	--	--	--	--	--	--	--	--	--
MW4	12/12/03	63.35	b 20.06	43.29	0.00	<13	<13	<13	<25	<1,300	<50	<500	1,000	--	--	--	--	--	--	--	--	--	--	--
MW4	03/15/04	63.35	b 16.89	46.46	0.00	1.5	<0.50	<0.50	<1.0	54	d <50	<500	41	--	0.16	--	--	--	--	--	--	--	--	--
MW4	06/24/04	63.35	b 19.31	44.04	0.00	69	<5.0	<5.0	<10	920	d <50	<500	1,100	--	0.15	--	--	--	--	--	--	--	--	--
MW4	09/29/04	63.35	b 20.20	43.15	0.00	<5.0	<5.0	<5.0	<10	940	g <50	<500	1,200	--	0.13	6.63	--	--	--	--	--	--	--	--
MW4	12/13/04	**	b 20.44		0.00	<5.0	<5.0	<5.0	<10	740	<50	<500	860	--	0.58	6.84	--	--	--	--	--	--	--	--
MW4	03/14/05	**	b 18.30		0.00	20	<5.0	<5.0	<10	930	i <50	<500	930	--	0.28	6.34	--	--	--	--	--	--	--	--
MW4	06/15/05	**	b 20.03		0.00	350	6.1	<5.0	<10	2100	89	<500	1,100	--	0.46	-98.9	--	--	--	--	--	--	--	--
MW4	07/18/05	**				11	<5.0	<5.0	<10	540	i <50	<500	1,100	--	--	--	--	--	--	--	--	--	--	--
MW4	09/26/05	**	21.79		0.00	<5.0	<5.0	<5.0	<10	960	i <50	<500	660	--	2.20	210.4	6.73	--	--	--	--	--	--	--
MW5	06/30/98	100.9	a 20.60	80.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	23	220	4.3	6.1	--	--	--	--	--	--	--	--
MW5	07/29/98	100.9	a 21.52	79.38	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	08/26/98	100.9	a 22.21	78.69	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	10/01/98	100.9	a 22.95	77.95	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	256	4.8	6.71	--	--	--	--	--	--	--	--
MW5	10/30/98	100.9	a 23.23	77.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	11/30/98	100.9	a 23.12	77.78	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/28/98	100.9	a 23.18	77.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	01/25-26/99	100.9	a 22.61	78.29	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	305	9.7	7.04	--	--	--	--	--	--	--	--

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-PO ₄
MW5	02/26/99	100.9	a 19.78	81.12	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/24/99	100.9	a 20.25	80.65	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	05/12/99	100.9	a 21.06	79.84	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/15-16/99	100.9	a 24.19	76.71	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--	2.72	7.19	--	--	--	--	--	--	--
MW5	03/20/00	100.9	a 19.15	81.75	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	07/20/00	100.9	a 21.84	79.06	0.00	<0.50	0.98	<0.50	<0.50	<50	<50	<300	1.9	134	5.58	6.35	0.11	0.017	49	<0.10	3.9	<0.20	
MW5	10/11/00	100.9	a 23.4	77.50	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	04/10-11/01	100.9	a 22.3	78.60	0.00	<0.50	2.6	<0.50	0.6	<50	<50	<300	1.5	183	66	NR	<0.10	0.042	45	<0.10	2.9	0.11	
MW5	07/10/01	100.9	a 23.64	77.26	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	11/20/01	65.59	b 24.65	40.94	0.00	0.83	12	1.2	11	140	860	2,500	10	-- ^e	66	6.01	0.2	2.5	42	<0.10	--	<0.20	
MW5	02/19/02	65.59	b 22.37	43.22	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	05/21/02	65.59	b 23.10	42.49	0.00	<0.50	<0.50	<0.50	<0.50	<50	2,200	<300	<2.0	140	66	6.3	<0.1	0.22	44	<0.10	3	<0.20	
MW5	06/27/03	65.59	b 23.07	42.52	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	09/29/03	65.59	b 24.38	41.21	0.00	<0.50	0.52	7.1	35	100	<50	d <500	1.4	--	--	--	--	--	--	--	--	--	
MW5	12/12/03	65.59	b 23.90	41.69	0.00	<0.50	<0.50	<0.50	<1	<50	<50	<500	1.5	--	--	--	--	--	--	--	--	--	
MW5	03/15/04	65.59	b 20.82	44.77	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	6.4	--	--	--	--	--	--	--	
MW5	06/24/04	65.59	b 23.57	42.02	0.00	<0.50	<0.50	<0.50	<1.0	<50	130	f <500	0.79	--	5.56	--	--	--	--	--	--	--	
MW5	09/29/04	65.59	b 24.44	41.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	12/13/04	65.59	b 23.87	41.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	03/14/05	65.59	b 20.18	45.41	0.00	<0.50	1.3	1.5	8.6	82	<50	<500	<0.50	--	3.91	5.57	--	--	--	--	--	--	
MW5	06/15/05	65.59	b 12.96	52.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	09/26/05	65.59	b 23.60	41.99	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW6	07/20/00	96.60	a 18.30	78.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	160	122	2.72	6.66	120	1.9	53	6	0.05	<0.20	
MW6	10/11/00	96.60	a 18.69	77.91	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW6	04/10-11/01	96.60	a 17.85	78.75	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	180	142	NR	NR	22	2.2	0.69	5.2	<0.05	<0.20	
MW6	07/10/01	96.60	a 18.43	78.17	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW6	11/20/01	59.60	b 18.67	40.93	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	450	100	2.03	6.44	29	5.2	1.1	3.4	--	<0.20	
MW6	02/19/02	59.60	b 17.40	42.20	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW6	05/21/02	59.60	b 17.68	41.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	170	100	0.76	6.6	11	3.4	1.4	8.9	0.65	<0.20	
MW6	06/27/03	59.60	b 17.73	41.87	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW6	09/29/03	59.60	b 18.48	41.12	0.00	<1.0	<1.0	<1.0	<2.0	230	d <50	<500	340	--	--	--	--	--	--	--	--	--	
MW6	12/12/03	59.60	b 17.89	41.71	0.00	<2.5	<2.5	<2.5	<5.0	<250	51	<500	190	--	--	--	--	--	--	--	--	--	
MW6	03/15/04	59.60	b 16.46	43.14	0.00	<1.0	<1.0	<1.0	<2.0	200	<50	<500	220	--	0.11	--	--	--	--	--	--	--	
MW6	06/24/04	59.60	b 17.97	41.63	0.00	<1.0	<1.0	<1.0	<2.0	130	<50	<500	190	--	0.05	--	--	--	--	--	--	--	
MW6	09/29/04	59.60	b 18.55	41.05	0.00	<0.50	0.61	<0.50	1.2	210	g <50	<500	190	--	0.37	6.60	--	--	--	--	--	--	
MW6	12/13/04	59.60	b 17.88	41.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW6	03/14/05	59.60	b 16.82	42.78	0.00	<0.50	<0.50	<0.50	1.8	160	<50	<500	190	--	0.08	5.65	--	--	--	--	--	--	
MW6	06/15/05	59.60	b 17.60	42.00	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW6	09/26/05	59.60	b NM	NM	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW7	07/20/00	96.75	a 15.93	80.82	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	32.2	7.15	7.43	<0.1	0.002	7.5	<0.10	2.6	0.13	
MW7	10/11/00	96.75	a 16.90	79.85	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW7	04/10-11/01	96.75	a 15.80	80.95	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	77.6	NR	NR	0.18	0.048	49	<0.10	2.7	0.31	
MW7	07/10/01	96.75	a 16.71	80.04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW7	11/20/01	59.47	b 16.17	43.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	62	0.96	7.11	0.16	1.8	63	<0.10	--	<0.20	
MW7	02/19/02	59.47	b 14.92	44.55	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW7	05/21/02	59.47	b 15.18	44.29	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	68	1.03	7.57	0.11	0.35	51	<0.10	2.8	0.11	

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)											
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-PO ₄		
MW7	06/27/03	59.47	b 16.28	43.19	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/29/03	59.47	b 16.88	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	0.62	--	--	--	--	--	--	--	--	--	--	--	--
MW7	12/12/03	59.47	b 14.95	44.52	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/15/04	59.47	b 14.77	44.70	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	--	--	--	--	--	--	--	--	--	--
MW7	06/24/04	59.47	b 16.33	43.14	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	0.54	--	--	--	--	--	--	--	--	--	--
MW7	09/29/04	59.47	b 16.88	42.59	0.00	--	--	--	--	--	--	--	--	--	0.20	--	--	--	--	--	--	--	--	--	--
MW7	12/13/04	59.47	b 15.26	44.21	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/14/05	59.47	b 15.00	44.47	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	0.47	--	6.15	--	--	--	--	--	--	--	--
MW7	06/15/05	59.47	b 15.32	44.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/26/05	59.47	b NM	NM	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SPH Separate-phase hydrocarbons.

CO₂ Carbon dioxide.

DO Dissolved oxygen.

Fe(II) Ferrous iron.

Mn Manganese.

SO₄ Sulfate.

N-NH₃ Ammonia.

N-NO₃ Nitrate.

o-PO₄ Ortho-Phosphate.

GW Groundwater.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

TPH-mo Total Petroleum Hydrocarbons as motor oil.

MTBE Methyl tertiary butyl ether.

NR Not reported.

µg/L Micrograms per liter.

mg/L Milligrams per liter.

* SPH present; not sampled.

** Well MW4 elevation modified due to site renovation activities. Not Surveyed.

-- Not analyzed or not sampled.

< Less than the laboratory reporting limits.

a Elevations are referenced to monitoring well MW1, with assumed datum of 100.00 feet.

b Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.

c Analysis not conducted due to broken sample containers.

d Hydrocarbon reported in the gasoline range does not match laboratory gasoline standard.

e Groundwater elevation in wells with LPH are corrected by multiplying the specific gravity of gasoline (0.69) by the LPH thickness and adding this value to the water elevation.

f Hydrocarbon reported is in the early diesel range, and does not match the laboratory diesel standard.

g Sample contained discrete peak in gasoline range and identified by lab as MTBE.

h Quantity of unknown hydrocarbon(s) in sample based on diesel.

i The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

j Depth to groundwater is based on the depth of the stingers.

k Quantity of unknown hydrocarbon(s) in sample based on motor oil.

TABLE 3 HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Boring ID	Date	Depth (feet)	Concentrations (µg/L)													
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
HP1	12/18/2003	26-30	<5.0	<5.0	<5.0	11	410	180	<500	<50	480	<10	<5.0	<5.0	<5.0	<5.0
HP3	12/18/2003	32-36	<0.50	<0.50	<0.50	<1.0	<50	75	<500	<5.0	0.55	<1.0	<0.50	<0.50	1.3	<0.50

TPH-g Total Petroleum Hydrocarbons as gasoline.
 TPH-d Total Petroleum Hydrocarbons as diesel.
 TPH-mo Total Petroleum Hydrocarbons as motor oil.
 TBA t-butyl alcohol.
 MTBE Methyl tertiary butyl ether.
 DIPE di-isopropyl ether.
 ETBE ethyl t-butyl ether.
 TAME t-amyl methyl ether.
 1,2-DCA 1,2-dichloroethane.
 EDB ethylene dibromide.
 < less than the laboratory reporting limits.

TABLE 4 DPE SYSTEM - GROUNDWATER ANALYTICAL RESULTS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Sample Location	Sample Date	Concentrations (µg/L)					
		TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes
Influent	12/20/04	2,100		440	110	77	340
	02/28/05		1,700	550	2,500	410	4,300
	03/23/05	70,000	4,000	360	2,300	740	6,300
	03/28/05	7,900	1,100	240	1,100	150	1,900
	04/04/05	16,000	2,900	150	890	150	2,200
	04/18/05	17,000	990	610	2,300	300	3,500
	04/29/05	7,600	1,000	190	870	95	1,800
	05/13/05	15,000	4,200	130	530	78	2,000
	05/20/05	9,700	660	210	930	81	2,400
	06/09/05	13,000	1,200	360	1,700	150	2,900
	07/11/05	19,000	1,300	760	2,800	220	3,700
	08/01/05	25,000	3,200	490	2,600	150	4,200
	08/15/05	18,000	2,800	540	2,500	150	4,300
	09/06/05	10,000	2,900	310	1,400	35	3,000
10/10/05	15,000	1,300	380	2,500	87	4,000	
Midfluent	02/28/05	NA	<50	<0.50	<0.50	<0.50	<1
	03/23/05	<50	<50	<0.50	<0.50	<0.50	<1
	03/28/05	<50	<50	<0.50	<0.50	<0.50	<0.50
	04/04/05	<50	<50	<0.50	<0.50	<0.50	<1
	04/18/05	<50	<50	<0.50	<0.50	<0.50	<1
	04/29/05	<50	<50	<0.50	<0.50	<0.50	<1
	05/13/05	<50	<50	<0.50	<0.50	<0.50	<1
	05/20/05	<50	<50	<0.50	<0.50	<0.50	<1
	06/09/05	<50	<50	<0.50	<0.50	<0.50	<1
	07/11/05	<50	<50	<0.50	<0.50	<0.50	<1
	08/01/05	<50	<50	<0.50	<0.50	<0.50	<1
08/15/05	<50	<50	<0.50	<0.50	<0.50	<1	
09/06/05	<50	<50	<0.50	<0.50	<0.50	<1	
10/10/05	<50	<50	<0.50	<0.50	<0.50	<1	
Effluent	12/20/04	NA	NA	<0.50	<0.50	<0.50	<1
	02/28/05	NA	<50	<0.50	<0.50	<0.50	<1
	03/23/05	<50	<50	<0.50	<0.50	<0.50	<1
	03/28/05	<50	<50	<0.50	<0.50	<0.50	<0.50
	04/04/05	<50	<50	<0.50	<0.50	<0.50	<1
	04/18/05	<50	<50	<0.50	<0.50	<0.50	<1
	04/29/05	<50	<50	<0.50	<0.50	<0.50	<1
	05/13/05	<50	<50	<0.50	<0.50	<0.50	<1
	05/20/05	<50	<50	<0.50	<0.50	<0.50	<1
	06/09/05	<50	<50	<0.50	<0.50	<0.50	<1
	07/11/05	<50	<50	<0.50	<0.50	<0.50	<1
	08/01/05	<50	<50	<0.50	<0.50	<0.50	<1
	08/15/05	<50	<50	<0.50	<0.50	<0.50	<1
	09/06/05	<50	<50	<0.50	<0.50	<0.50	<1
10/10/05	<50	<50	<0.50	<0.50	<0.50	<1	

µg/L - micrograms per liter

TPH-g - Total Petroleum Hydrocarbons as gasoline

TPH-d - Total Petroleum Hydrocarbons as diesel

MTBE - Methyl tert-butyl ether

TABLE 5 DPE SYSTEM - VAPOR ANALYTICAL RESULTS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Sample Location	Date	Concentration (ppmv) by EPA Method 8015M/8020					POC Abatement Efficiency Based on Lab results
		TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	
Influent	02/28/05	5,400	77	260	45	270	
	03/23/05	6,100	92	340	54	340	
	03/28/05	3,300	40	170	25	140	
	04/04/05	14,000	150	730	120	730	
	04/18/05	3,100	46	160	27	170	
	04/29/05	37.0	0.77	2.50	0	2.2	
	05/13/05	4,800	72	300	62	380	
	05/20/05	5,600	61	310	60	450	
	06/09/05	3,121	34	138	18	144	
	07/11/05	1,300	15	50	5.7	52	
	08/01/05	920	14	50	5.9	41	
	08/15/05	870	10	42	4	37	
	09/06/05	1,100	10	52	4.3	41	
	10/10/05	1,900	18	86	7.9	68	
Effluent	02/28/05	<14	<0.15	<0.13	<0.11	<0.23	99.7%
	03/23/05	<14	<0.15	<0.13	<0.11	<0.23	99.8%
	03/28/05	<14	<0.15	<0.13	<0.11	<0.23	99.6%
	04/04/05	<14	<0.15	<0.13	<0.11	<0.23	99.9%
	04/18/05	<14	<0.15	<0.13	<0.11	<0.23	99.5%
	04/29/05	<14	<0.15	<0.13	<0.11	<0.23	62.2%
	05/13/05	<14	<0.15	1.40	0.54	4.60	99.7%
	05/20/05	<14	<0.15	<0.13	<0.11	0.41	99.8%
	06/09/05	<14	<0.15	<0.13	<0.11	<0.23	99.6%
	07/11/05	<14	<0.15	<0.13	<0.11	<0.23	98.9%
	08/01/05	<14	<0.15	<0.13	<0.11	<0.23	98.5%
	08/15/05	<14	<0.15	0.39	<0.11	0.47	98.4%
	09/06/05	<14	<0.15	<0.13	<0.11	<0.23	98.7%
	10/10/05	<14	<0.15	<0.13	<0.11	<0.23	99.3%

TPHg - Total petroleum hydrocarbons as gasoline
ppmv- Parts Per Million by Volume
POC- Precursor Organic Compound

TABLE 6 OPERATION AND PERFORMANCE DATA - GROUNDWATER EXTRACTION SYSTEM
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) Total TPH	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* Total TPH	Cumulative Pounds Removed Total TPH	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
05/02/05	1.3	44%	265,580	8.6	NA	NA	0.80	56.30	0.01	0.85
05/04/05	0.8	41%	270,850	11.8	NA	NA	0.50	56.80	0.01	0.86
05/06/05	1.9	99%	273,650	2.9	NA	NA	0.26	57.07	0.00	0.86
05/09/05	1.5	47%	273,980	1.5	NA	NA	0.03	57.10	0.00	0.86
05/11/05	0.0	1%	274,000	19.4	NA	NA	0.00	57.10	0.00	0.86
05/13/05	1.0	59%	278,000	2.8	15,000	130	0.50	57.60	0.00	0.87
05/18/05	2.5	47%	285,030	3.1	NA	NA	0.72	58.32	0.01	0.88
05/20/05	1.0	61%	291,370	8.8	9,700	210	0.51	58.83	0.01	0.89
05/26/05	3.4	57%	299,570	2.9	NA	NA	0.78	59.61	0.02	0.91
05/31/05	5.2	99%	325,600	4.5	NA	NA	2.46	62.07	0.06	0.97
06/03/05	1.8	65%	334,930	13.8	NA	NA	0.88	62.96	0.02	0.99
06/09/05	4.2	70%	347,080	3.5	13,000	360	1.32	64.27	0.04	1.03
06/10/05	1.1	100%	353,340	11.2	NA	NA	0.84	65.11	0.03	1.06
06/13/05	1.9	63%	363,280	5.9	NA	NA	1.33	66.43	0.05	1.10
06/17/05	0.3	7%	363,650	24.5	NA	NA	0.05	66.48	0.00	1.11
06/20/05	1.8	62%	374,370	4.2	NA	NA	1.43	67.91	0.05	1.16
06/23/05	2.2	77%	384,660	6.5	NA	NA	1.37	69.29	0.05	1.20
06/27/05	1.2	30%	389,010	8.6	NA	NA	0.58	69.87	0.02	1.22
06/30/05	1.3	45%	396,470	6.2	NA	NA	1.00	70.86	0.03	1.26
07/05/05	3.2	64%	405,550	3.6	NA	NA	1.21	72.07	0.04	1.30
07/08/05	0.1	2%	405,910	98.3	NA	NA	0.05	72.12	0.00	1.30
07/11/05	1.5	52%	410,020	2.0	19,000	760	0.65	72.77	0.03	1.33
07/15/05	4.0	94%	410,880	0.9	NA	NA	0.16	72.93	0.00	1.33
07/18/05	2.2	79%	416,100	1.9	NA	NA	0.96	73.89	0.03	1.36
07/22/05	3.3	80%	423,910	2.7	NA	NA	1.43	75.32	0.04	1.40
07/25/05	1.0	36%	426,060	6.8	NA	NA	0.39	75.71	0.01	1.41
07/29/05	4.0	99%	435,140	2.0	NA	NA	1.67	77.38	0.05	1.46
08/01/05	3.0	100%	441,790	3.6	25,000	490	1.39	78.77	0.03	1.49
08/05/05	3.4	82%	449,130	2.9	NA	NA	1.32	80.08	0.03	1.52

**TABLE 6 OPERATION AND PERFORMANCE DATA - GROUNDWATER EXTRACTION SYSTEM
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA**

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) Total TPH	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* Total TPH	Cumulative Pounds Removed Total TPH	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
08/08/05	2.8	97%	455,200	3.4	NA	NA	1.09	81.17	0.03	1.54
08/12/05	3.3	81%	462,270	2.8	NA	NA	1.27	82.44	0.03	1.57
08/15/05	3.0	100%	468,700	3.1	18,000	540	0.96	83.40	0.03	1.60
08/19/05	3.9	99%	476,890	2.6	NA	NA	0.96	84.36	0.03	1.63
08/22/05	3.1	100%	483,190	3.2	NA	NA	0.74	85.09	0.02	1.66
08/29/05	7.0	100%	497,280	2.0	NA	NA	1.64	86.74	0.05	1.71
09/06/05	8.1	99%	499,380	1.4	10,000	310	0.25	86.98	0.01	1.71
09/09/05	2.8	99%	505,100	1.9	NA	NA	0.67	87.65	0.02	1.73
09/15/05	6.2	99%	517,140	2.0	NA	NA	1.41	89.06	0.04	1.78
09/19/05	4.0	100%	524,690	3.4	NA	NA	0.88	89.94	0.03	1.80
09/23/05	4.0	98%	533,140	2.8	NA	NA	0.99	90.92	0.03	1.83
09/26/05	2.1	74%	540,516	5.3	NA	NA	0.86	91.78	0.03	1.86
Total	151	71%	540,516	2.5			91.78		1.86	

* Est. Mass TPH Removed (pounds) = Average influent conc. (µg/L) * period flow total (gallons) * 1 lb/454 g * 1/1,000,000 * 3.785 L/gallon

µg/L - Micrograms per liter.

TPH - Total Petroleum Hydrocarbons (measured as Total Petroleum Hydrocarbons as both gasoline and diesel as analyzed by EPA Method 8015 modified).

gpm - Gallons per minute.

NM - Not Measured.

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**TABLE 7 OPERATION AND PERFORMANCE DATA - DUAL PHASE EXTRACTION SYSTEM
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA**

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
02/23/05	0.0	0%	0	55	4,000	NA	77	0.0	1.54	0.00	0.00
02/25/05	2.0	99%	149,448	52	4,000	NA	NA	211.7	1.46	2.56	0.00
02/28/05	3.0	100%	257,712	59	3,996	5,400	NA	365.0	0.11	4.42	0.00
03/04/05	1.5	38%	85,878	39	NM	NA	NA	129.5	0.00	1.47	0.00
03/07/05	1.4	48%	65,583	32	3,996	NA	NA	98.9	0.12	1.12	0.00
03/11/05	4.0	98%	176,347	31	NM	NA	NA	265.9	0.00	3.02	0.00
03/14/05	3.1	100%	144,576	32	4,026	NA	NA	218.0	0.12	2.48	0.00
03/21/05	5.1	73%	233,645	32	NM	NA	NA	352.4	0.00	4.01	0.00
03/21/05	0.0	0%	0	0	0	NA	NA	0.0	0.00	0.00	0.00
03/23/05	0.6	30%	38,493	46	4,000	6,100	92	61.6	2.12	0.72	0.00
03/25/05	0.6	26%	26,082	32	4,000	NA	NA	32.2	2.47	0.35	0.00
03/28/05	2.6	94%	117,558	32	4,000	3,300	40	101.7	3.00	0.95	0.00
03/30/05	2.2	98%	185,496	59	NM	NA	150	155.7	0.00	5.65	0.00
04/01/05	1.7	95%	76,923	32	4,000	NA	NA	64.6	2.29	1.53	0.00
04/04/05	1.3	45%	60,480	32	4,000	NA	NA	50.8	2.29	1.20	0.00
04/05/05	0.5	51%	23,247	32	4,000	NA	NA	19.5	2.29	0.46	0.00
04/07/05	1.3	64%	57,834	32	4,000	NA	NA	48.5	2.88	1.15	0.00
04/08/05	0.5	53%	24,759	32	4,000	NA	NA	20.8	3.06	0.49	0.00
04/11/05	0.5	18%	24,759	32	4,000	NA	NA	20.8	2.29	0.49	0.00
04/12/05	0.9	96%	43,092	32	4,000	NA	NA	36.2	2.29	0.86	0.00
04/14/05	2.1	100%	196,812	66	4,000	NA	NA	165.2	9.37	3.91	0.00
04/15/05	0.1	14%	6,237	32	4,000	NA	NA	5.2	1.82	0.12	0.00
04/18/05	0.0	1%	945	32	4,000	3,100	46	0.8	10.59	0.01	0.00
04/18/05	0.0	0%	0	32	4,000	NA	NA	0.0	4.06	0.00	0.00
04/20/05	1.5	76%	69,312	32	4,000	NA	NA	28.5	4.06	0.33	0.00
04/22/05	2.0	99%	91,008	32	1,978	NA	NA	37.4	4.06	0.43	0.00
04/27/05	0.7	13%	30,051	32	4,000	NA	NA	12.4	1.18	0.14	0.00
04/29/05	1.5	76%	68,418	32	3,984	37	1	0.7	2.47	0.01	0.00
05/02/05	1.3	44%	60,480	32	4,000	NA	NA	38.4	10.59	0.45	0.00
05/04/05	0.8	41%	36,666	32	NM	NA	NA	23.3	0.00	0.27	0.00
05/06/05	1.9	99%	163,548	59	3,982	NA	NA	103.7	2.75	1.21	0.00
05/09/05	1.5	47%	123,900	59	NM	NA	NA	78.6	0.00	0.91	0.00
05/11/05	0.0	1%	567	32	904	NA	NA	0.4	0.00	0.00	0.00
05/12/05	0.7	100%	70,092	66	NM	NA	NA	44.5	0.00	0.52	0.00
05/13/05	1.0	59%	45,927	32	824	4,800	72	57.8	0.35	0.67	0.00
05/18/05	2.5	47%	185,016	52	789	NA	NA	252.3	1.55	2.50	0.01
05/20/05	1.0	61%	47,628	32	884	5,600	61	70.0	0.00	0.59	0.00

TABLE 6 OPERATION AND PERFORMANCE DATA - GROUNDWATER EXTRACTION SYSTEM
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) Total TPH	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* Total TPH	Cumulative Pounds Removed Total TPH	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
12/20/04	0.0	0%	0	0.0	2,100	440	0.00	0.00	0.00	0.00
02/23/05	0.0	0%	19,148	0.0	0	0	5.75	5.75	0.08	0.08
02/25/05	2.0	99%	25,840	2.3	NA	0	2.01	7.77	0.03	0.11
02/28/05	3.0	100%	51,770	5.9	NA	550	7.79	15.56	0.12	0.23
03/04/05	1.5	38%	63,010	5.1	NA	0	3.38	18.94	0.04	0.27
03/07/05	1.4	48%	73,950	5.3	NA	0	3.29	22.23	0.04	0.31
03/11/05	4.0	98%	92,050	3.2	NA	0	5.44	27.67	0.07	0.38
03/14/05	3.1	100%	93,080	0.2	NA	0	0.31	27.98	0.00	0.38
03/21/05	5.1	73%	128,800	4.9	NA	0	10.74	38.71	0.14	0.52
03/21/05	0.0	0%	128,810	0.0	NA	0	0.00	38.71	0.00	0.52
03/23/05	0.6	30%	133,270	5.3	70,000	360	2.60	41.32	0.01	0.53
03/25/05	0.6	26%	137,720	5.4	NA	0	1.45	42.76	0.01	0.54
03/28/05	2.6	94%	156,980	5.2	7,900	240	1.27	44.03	0.04	0.58
03/30/05	2.2	98%	172,040	4.8	NA	0	1.50	45.53	0.02	0.61
04/01/05	1.7	95%	177,610	2.3	NA	NA	0.55	46.09	0.01	0.61
04/04/05	1.3	45%	186,830	4.8	16,000	150	1.23	47.32	0.01	0.63
04/05/05	0.5	51%	190,620	5.1	NA	0	0.52	47.84	0.01	0.64
04/07/05	1.3	64%	199,220	4.7	NA	0	1.18	49.02	0.03	0.67
04/08/05	0.5	53%	203,140	5.0	NA	0	0.54	49.56	0.01	0.68
04/11/05	0.5	18%	206,960	4.9	NA	NA	0.53	50.08	0.01	0.69
04/12/05	0.9	96%	213,660	4.9	NA	NA	0.92	51.01	0.02	0.71
04/14/05	2.1	100%	222,830	3.1	NA	NA	1.26	52.27	0.03	0.74
04/15/05	0.1	14%	223,760	4.7	NA	NA	0.13	52.40	0.00	0.74
04/18/05	0.0	1%	223,960	6.7	17,000	610	0.03	52.42	0.00	0.74
04/18/05	0.0	0%	223,960	0.0	NA	NA	0.00	52.42	0.00	0.74
04/20/05	1.5	76%	234,520	4.9	NA	NA	1.08	53.51	0.04	0.78
04/22/05	2.0	99%	244,950	7.4	NA	NA	1.07	54.58	0.03	0.81
04/27/05	0.7	13%	249,050	15.2	NA	NA	0.42	55.00	0.01	0.83
04/29/05	1.5	76%	257,120	5.6	7,600	190	0.51	55.51	0.01	0.84

**TABLE 7 OPERATION AND PERFORMANCE DATA - DUAL PHASE EXTRACTION SYSTEM
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA**

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
05/26/05	3.4	57%	156,114	32	816	NA	NA	178.5	0.00	1.51	0.00
05/31/05	5.2	99%	237,195	32	920	NA	NA	271.3	0.00	2.30	0.01
06/03/05	1.8	65%	80,514	32	782	NA	NA	92.1	0.35	0.78	0.00
06/09/05	4.2	70%	360,018	59	1,059	3,121	34	294.7	0.00	2.52	0.01
06/10/05	1.1	100%	97,350	59	971	NA	NA	56.4	0.00	0.49	0.00
06/13/05	1.9	63%	160,716	59	NM	NA	NA	93.2	0.00	0.81	0.00
06/17/05	0.3	7%	13,230	32	1,126	NA	NA	7.7	0.35	0.07	0.00
06/20/05	1.8	62%	63,504	24	1,218	NA	NA	36.8	0.27	0.32	0.00
06/23/05	2.2	77%	211,860	66	598	NA	NA	122.8	3.45	1.06	0.01
06/27/05	1.2	30%	53,487	32	741	NA	NA	31.0	0.94	0.27	0.00
06/30/05	1.3	45%	99,247	52	621	NA	NA	57.5	0.00	0.50	0.00
07/05/05	3.2	64%	241,145	52	NM	NA	NA	139.8	0.00	1.21	0.01
07/08/05	0.1	2%	5,664	59	NM	NA	NA	3.3	0.00	0.03	0.00
07/11/05	1.5	52%	113,568	52	179	1,300	15	38.7	0.00	0.35	0.00
07/15/05	4.0	94%	296,400	52	127	NA	NA	86.3	0.00	0.87	0.01
07/18/05	2.2	79%	209,088	66	191	NA	NA	60.9	0.00	0.62	0.01
07/22/05	3.3	80%	114,336	24	2,656	NA	NA	33.3	0.00	0.34	0.00
07/25/05	1.0	36%	38,064	26	891	NA	NA	11.1	0.00	0.11	0.00
07/29/05	4.0	99%	428,850	75	1,850	NA	NA	124.8	0.00	1.26	0.01
08/01/05	3.0	100%	126,846	29	436	920	14	30.6	0.00	0.36	0.00
08/05/05	3.4	82%	241,500	50	718	NA	NA	56.7	0.00	0.59	0.01
08/08/05	2.8	97%	183,816	46	396	NA	NA	43.1	0.00	0.45	0.01
08/12/05	3.3	81%	215,556	46	1,160	NA	NA	50.6	0.00	0.52	0.01
08/15/05	3.0	100%	205,860	47	417	870	10	47.0	0.00	0.42	0.01
08/19/05	3.9	99%	209,124	37	1,445	NA	NA	54.0	0.00	0.42	0.01
08/22/05	3.1	100%	183,270	41	440	NA	NA	47.3	0.00	0.37	0.01
08/29/05	7.0	100%	322,752	32	491	NA	NA	83.4	0.00	0.66	0.01
09/06/05	8.1	99%	197,880	17	521	1,100	10	51.1	0.00	0.40	0.01
09/09/05	2.8	99%	149,577	37	482	NA	NA	38.6	0.00	0.30	0.00
09/15/05	6.2	99%	320,112	36	516	NA	NA	82.7	0.00	0.65	0.01
09/19/05	4.0	100%	273,600	48	289	NA	NA	70.7	0.00	0.56	0.01
09/23/05	4.0	98%	230,160	40	300	NA	NA	59.5	0.00	0.47	0.01
09/26/05	2.1	74%	164,010	55	590	NA	NA	42.4	0.00	0.33	0.00
Total/Average	152.1	71%	8,992,931	29				5,671		66.9	

^a Est. pounds/day removed/emitted TPH-g = Average Combined well conc. (ppm.) * 4.2(µg/L/ppm.) * Average combined well flowrate (CFM) * 1440 min/day * 1 g/1,000,000 µg * 0.002205 lbs/g * 28.32 L/ft³

^b Est. pounds/day removed/emitted Benzene = Average Combined well conc. (ppm.) * 3.25(µg/L/ppm.) * Average combined well flowrate (CFM) * 1440 min/day * 1 g/1,000,000 µg * 0.002205 lbs/g * 28.32 L/ft³

Cumulative Total - Total as measured since system start-up.

TPH-g - Total Petroleum Hydrocarbons as gasoline.

CFM - Cubic feet per minute.

ppmv - Parts Per Million by Volume.

TABLE 8 GROUNDWATER MONITORING SCHEDULE
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency		
		BTEX and TPH-g	MTBE	TEPH
MW1	Q	S	S	S
MW2	Q	Q	Q	Q
MW3	Q	Q	Q	Q
MW4	Q	Q	Q	Q
MW5	Q	A	A	A
MW6	Q	S	S	S
MW7	Q	A	A	A

Q = Quarterly.
 S = Semiannual.
 A = Annual.

BTEX = Benzene, toluene, ethylbenzene, total xylenes.

MTBE = Methyl tertiary butyl ether.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

TEPH = Total Extractable Petroleum Hydrocarbons, includes TPH-diesel and TPH-motor oil.

Appendix A

Protocols for Groundwater Monitoring

PROTOCOLS FOR GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

Appendix B
Field Documents



MONITORING WELL DATA FORM

Client: STROUGH FAMILY TRUST

Date: 09/26/05

Project Number: TMSFT.6

Station Number SFT

Site Location: 327 34TH ST.
OAKLAND, CA.

Samplers: RC, S6

MONITORING WELL NUMBER	DEPTH TO WATER (TOC)	DEPTH TO PRODUCT (TOC)	APPARENT PRODUCT THICKNESS	AMOUNT OF PRODUCT REMOVED	MONITORING WELL INTEGRITY	DEPTH TO BOTTOM (TOC)	GENERAL FIELD COMMENTS
------------------------	----------------------	------------------------	----------------------------	---------------------------	---------------------------	-----------------------	------------------------

MW1	22.10					30.90	2"
MW2*	22.93					31.85	2"
MW3*	22.92					32.19	2"
MW4	21.79					28.20	2"
MW5	23.60					27.00	2"
MW6	Car	on top	of well	- NO	Access.	26.90	2"
MW7	Car	on top	of well	- NO	Access.	34.55	2"

* POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER

G:\USERS\Fitzgerald\STROUGH FAMILY TRUST (2)\SFTMonitoring\ Note: Depth to bottom measured during first quarter unless noted.



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST

Well No: MW1

Date: 09/26/05

Project No: TMSFT.6

Personnel: RC

GAUGING DATA

Water Level Measuring Method: WLM / IP

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
	30.90	22.10	8.8	1	2	4	6		
				0.04	0.16	0.64	1.44	1.4	4.22

PURGING DATA

Purge Method: WATERRA / BAILER / SUB

PURGE RATE

GPM

	5.47	5.50	5.53			
Time (min)						
Volume Pumped (gal)	2	4	6			
Temperature (°C)	18.54	18.46	18.44			
pH	6.58	6.44	6.43			
Specific Conductance	1218	1212	1259			
DO (mg/L)	23.2/2.13	15.1/1.42	19.8/1.84			
GPI	280.3	308.5	317.4			
Turbidity/Color	Clear/Brown	Clear/Brown	Clear/Brown			
Opacity (NTU)	N	N	N			
Dissolved (µM)	N	N	N			

Alkalinity:

Comments/Observations:

SAMPLING DATA

Time Sampled: 1800

Approximate Depth to Water During Sampling: 22 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (ml or L)	Turbidity/Color	Analysis Method
MW1	3	VOA	HCL	40 ml		HVOCs by 8260B
MW1	2	AMBER	HCL	1L		TPH-D, TEHO

Total Purge Volume: 6 (gallons)

Disposal:

System

Weather Conditions:

OK

BOLTS

Y / N

Condition of Well Box and Casing at Time of Sampling:

None

CAP & LOCK

Y / N

Well Head Conditions Requiring Correction:

None

GROUT

Y / N

Problems Encountered During Purging and Sampling:

None

WELL BOX

Y / N

Comments:

SECURED

Y / N

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST

Well No: MW 2

Date: 09/26/05

Project No: TMSFT.6

Personnel: RC

GAUGING DATA

Water Level Measuring Method: WLM / IP

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
				1	2	4	6		
	—	—	—	1	2	4	6	—	—
				0.04	0.16	0.64	1.44		

PURGING DATA

Purge Method: WATERRA / BAILER / SUB

PURGE RATE

GPM

Time	Volume Purged (gal)	Temperature (C)	Specific Gravity	Dissolved Solids (ppm)	pH	Hardness (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Alkalinity (mg/L)
	Sampled		System		up				
	at		well		with				

Alkalinity:

Comments/Observations:

SAMPLING DATA

Time Sampled: 17:16

Approximate Depth to Water During Sampling:

(feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (ml or L)	Turbidity/Color	Analysis Method
MW 2	3	VOA	HCL	40 ml		HVOCs by 8260B
MW 2	2	AMBER	HCL	1L		TPH-D, TEHO

Total Purge Volume: — (gallons)

Disposal:

System

Weather Conditions:

O.K

BOLTS / N

Condition of Well Box and Casing at Time of Sampling:

O.K

CAP & LOCK / N

Well Head Conditions Requiring Correction:

None

GROUT / N

Problems Encountered During Purging and Sampling:

None

WELL BOX / N

Comments:

SECURED / N



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST

Well No: MW3

Date: 9/26/05

Project No: TMSFT.6

Personnel: RC

GAUGING DATA

Water Level Measuring Method: WLM / IP

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Gassing Volume (gal)	Total Purge Volume (gal)
				1	2	4	6		
				0.04	0.16	0.64	1.44		
				<input checked="" type="checkbox"/>					

PURGING DATA

Purge Method: WATERRA / BAILER SUB

PURGE RATE

GPM

Time	Temperature (C)	Specific Gravity	DO (mg/L)	ORP	Turbidity (NTU)	Color (PCU)	Dissolved Solids (mg/L)

Alkalinity:

Comments/Observations:

SAMPLING DATA

Time Sampled: 1800

Approximate Depth to Water During Sampling: — (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or L)	Turbidity/Color	Analysis Method
MW3	3	VOA	HCL	40 ml		HVOCs by 8260B
MW3	2	AMBER	HCL	1L		TPH-D, TEHO

Total Purge Volume: — (gallons)	Disposal: System
Weather Conditions: Ok	BOLTS Y / <input checked="" type="checkbox"/> N
Condition of Well Box and Casing at Time of Sampling: No Bolts	CAP & LOCK <input checked="" type="checkbox"/> / N
Well Head Conditions Requiring Correction:	GROUT <input checked="" type="checkbox"/> / N
Problems Encountered During Purging and Sampling: none	WELL BOX <input checked="" type="checkbox"/> / N
Comments:	SECURED Y / N



GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST Well No: MW 4 Date: 09/26/05
 Project No: TMSFT.6 Personnel: RC

GAUGING DATA

Water Level Measuring Method: WLM / IP

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Gauging Volume (gal)	Total Purge Volume (gal)
	28.20	21.79	6.41	1	2	4	6	1.02	3
			0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: WATERRA / BAILER / SUB PURGE RATE GPM

Time	17.05	17.09	17.13			
Volume Purge (gal)	1	2	3			
Temperature (C)	19.05	18.62	18.59			
pH	7.14	6.71	6.73			
Sp. Cond. (microS)	719	741	745			
D.O. (mg/L)	79.2/7.31	23.6/2.20	24.3/2.20			
ORP	149.0	217.0	210.4			
Turbidity/Color	Clear/Brown	Clear	Clear			
Odor (Y/N)	N	N	N			
Disturbed (Y/N)	N	N	N			

Alkalinity:

Comments/Observations:

SAMPLING DATA

Time Sampled: 17.22 Approximate Depth to Water During Sampling: 22 (feet)

Comments:

Sample Number	Number of Containers	Container type	Perservative	Volume Filled (ml or L)	Turbidity/Color	Analysis Method
MW 4	3	VOA	HCL	40 ml		HVOCs by 8260B
MW 4	2	AMBER	HCL	1L		TPH-D, TEHO

Total Purge Volume: 3 (gallons) Disposal: System

Weather Conditions: Ok BOLTS Y / N

Condition of Well Box and Casing at Time of Sampling: none CAP & LOCK Y / N

Well Head Conditions Requiring Correction: none GROUT Y / N

Problems Encountered During Purging and Sampling: none WELL BOX Y / N

Comments: SECURED Y / N

Appendix C

Laboratory Analytical Reports

O & M
Laboratory Analytical Results

ETIC Oakland

July 21, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Kathy Brandt

Project#: TMSFT1 Task 10.8
Project: Strough Family Trust

Kathy

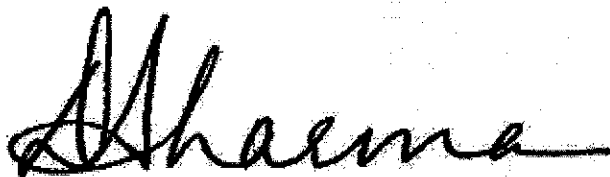
Attached is our report for your samples received on 07/11/2005 18:55
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
08/25/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	07/11/2005 12:30	Water	1
MIDFLUENT	07/11/2005 12:40	Water	2
INFLUENT	07/11/2005 12:50	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/19/2005 13:26

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFLUENT	Lab ID:	2005-07-0237 - 1
Sampled:	07/11/2005 12:30	Extracted:	7/18/2005 13:05
Matrix:	Water	QC Batch#:	2005/07/18-01 68
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/18/2005 13:05	
Benzene	ND	0.50	ug/L	1.00	07/18/2005 13:05	
Toluene	ND	0.50	ug/L	1.00	07/18/2005 13:05	
Ethylbenzene	ND	0.50	ug/L	1.00	07/18/2005 13:05	
Total xylenes	ND	1.0	ug/L	1.00	07/18/2005 13:05	
Surrogate(s)						
1,2-Dichloroethane-d4	101.9	73-130	%	1.00	07/18/2005 13:05	
Toluene-d8	102.1	81-114	%	1.00	07/18/2005 13:05	

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MIDFLUENT	Lab ID:	2005-07-0237 - 2
Sampled:	07/11/2005 12:40	Extracted:	7/18/2005 15:28
Matrix:	Water	QC Batch#:	2005/07/18-01.65
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/18/2005 15:28	
Benzene	ND	0.50	ug/L	1.00	07/18/2005 15:28	
Toluene	ND	0.50	ug/L	1.00	07/18/2005 15:28	
Ethylbenzene	ND	0.50	ug/L	1.00	07/18/2005 15:28	
Total xylenes	ND	1.0	ug/L	1.00	07/18/2005 15:28	
Surrogate(s)						
1,2-Dichloroethane-d4	98.8	73-130	%	1.00	07/18/2005 15:28	
Toluene-d8	108.0	81-114	%	1.00	07/18/2005 15:28	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFLUENT	Lab ID: 2005-07-0237 - 3
Sampled: 07/11/2005 12:50	Extracted: 7/18/2005 15:41
Matrix: Water	QC Batch#: 2005/07/18-01.68
Analysis Flag: L2, pH <2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	19000	2500	ug/L	50.00	07/18/2005 15:41	
Benzene	760	25	ug/L	50.00	07/18/2005 15:41	
Toluene	2800	25	ug/L	50.00	07/18/2005 15:41	
Ethylbenzene	220	25	ug/L	50.00	07/18/2005 15:41	
Total xylenes	3700	50	ug/L	50.00	07/18/2005 15:41	
Surrogate(s)						
1,2-Dichloroethane-d4	104.9	73-130	%	50.00	07/18/2005 15:41	
Toluene-d8	97.7	81-114	%	50.00	07/18/2005 15:41	

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/07/18-01.65	
MB: 2005/07/18-01.65-055				Date Extracted: 07/18/2005 08:55	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/18/2005 08:55	
Benzene	ND	0.5	ug/L	07/18/2005 08:55	
Toluene	ND	0.5	ug/L	07/18/2005 08:55	
Ethylbenzene	ND	0.5	ug/L	07/18/2005 08:55	
Total xylenes	ND	1.0	ug/L	07/18/2005 08:55	
Surrogates(s)					
1,2-Dichloroethane-d4	96.8	73-130	%	07/18/2005 08:55	
Toluene-d8	108.6	81-114	%	07/18/2005 08:55	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/07/18-01.68	
MB: 2005/07/18-01.68-040				Date Extracted: 07/18/2005 08:40	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/18/2005 08:40	
Benzene	ND	0.5	ug/L	07/18/2005 08:40	
Toluene	ND	0.5	ug/L	07/18/2005 08:40	
Ethylbenzene	ND	0.5	ug/L	07/18/2005 08:40	
Total xylenes	ND	1.0	ug/L	07/18/2005 08:40	
Surrogates(s)					
1,2-Dichloroethane-d4	104.6	73-130	%	07/18/2005 08:40	
Toluene-d8	99.8	81-114	%	07/18/2005 08:40	

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	
LCS: 2005/07/18-01-65-029		QC Batch # 2005/07/18-01.65	
LCSD:		Extracted: 07/18/2005	
		Analyzed: 07/18/2005 09:32	

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.6		25.0	94.4			69-129	20		
Toluene	23.1		25.0	92.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	443		500	88.6			73-130			
Toluene-d8	544		500	108.8			81-114			

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/19/2005 13:26

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/07/18-01.68			
LCS		2005/07/18-01.68-014			Extracted: 07/18/2005		Analyzed: 07/18/2005 08:14		
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.7		25.0	94.8			69-129	20		
Toluene	23.7		25.0	94.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424		500	84.8			73-130			
Toluene-d8	500		500	100.0			81-114			

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/19/2005 13:26

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/07/18-01.65	
MS/MSD		Lab ID:	2005-07-0274-002
MS: 2005/07/18-01.65-008	Extracted: 07/18/2005	Analyzed:	07/18/2005 11:08
		Dilution:	1.00
MSD: 2005/07/18-01.65-034	Extracted: 07/18/2005	Analyzed:	07/18/2005 11:34
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	21.9	19.0	ND	25.0	87.6	76.0	14.2	69-129	20		
Toluene	20.8	18.7	ND	25.0	83.2	74.8	10.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	444	355		500	88.8	71.0		73-130			S8
Toluene-d8	477	416		500	95.4	83.2		81-114			

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 07/11/2005 18:55

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

S8

Surrogate recoveries lower than acceptance limits.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/19/2005 13:26

Diesel (C9-C24) with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	07/11/2005 12:30	Water	1
MIDFLUENT	07/11/2005 12:40	Water	2
INFLUENT	07/11/2005 12:50	Water	3

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07/20/2005 16:23

Diesel (C9-C24) with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Prep(s): 3511	Test(s): 8015M
Sample ID: EFFLUENT	Lab ID: 2005-07-0237 - 1
Sampled: 07/11/2005 12:30	Extracted: 7/18/2005 13:18
Matrix: Water	QC Batch#: 2005/07/18-05:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/19/2005 23:26	
<i>Surrogate(s)</i> o-Terphenyl	109.8	60-130	%	1.00	07/19/2005 23:26	

Diesel (C9-C24) with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Prep(s):	3511	Test(s):	8015M
Sample ID:	MIDFLUENT	Lab ID:	2005-07-0237 - 2
Sampled:	07/11/2005 12:40	Extracted:	7/18/2005 13:18
Matrix:	Water	QC Batch#:	2005/07/18-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/19/2005 23:53	
Surrogate(s)						
o-Terphenyl	109.5	60-130	%	1.00	07/19/2005 23:53	

Diesel (C9-C24) with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 07/11/2005 18:55

Prep(s): 3511	Test(s): 8015M
Sample ID: INFLUENT	Lab ID: 2005-07-0237-3
Sampled: 07/11/2005 12:50	Extracted: 7/18/2005 13:18
Matrix: Water	QC Batch#: 2005/07/18-05-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1300	50	ug/L	1.00	07/20/2005 00:20	Q2
Surrogate(s) o-Terphenyl	108.8	60-130	%	1.00	07/20/2005 00:20	

Diesel (C9-C24) with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report					
Prep(s): 3511	Method Blank DIESEL			Water	Test(s): 8015M
MB: 2005/07/18-05-10-001				QC Batch # 2005/07/18-05-10	Date Extracted: 07/18/2005 13:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	07/19/2005 21:10	
Surrogates(s) o-Terphenyl	106.8	74-193	%	07/19/2005 21:10	

Diesel (C9-C24) with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report										
Prep(s): 3511						Test(s): 8015M				
Laboratory Control Spike DIESEL				Water			QC Batch # 2005/07/18-05-10			
LCS	2005/07/18-05-10-002			Extracted: 07/18/2005			Analyzed: 07/19/2005 22:32			
LCSD	2005/07/18-05-10-003			Extracted: 07/18/2005			Analyzed: 07/19/2005 22:59			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	613	596	680	90.1	87.6	2.8	60-150	25		
Surrogates(s) o-Terphenyl	1.32	1.27	1.25	105.2	101.7		74-193	0		

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07/20/2005 16:23

Diesel (C9-C24) with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

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07/20/2005 16:23

Page 7 of 7

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 07/11/2005 18:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	07/11/2005 13:00	Air	4
INLET	07/11/2005 13:10	Air	5

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07/19/2005 12:14

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Prep(s):	5030B	Test(s):	8260B
Sample ID:	OUTLET	Lab ID:	2005-07-0237-4
Sampled:	07/11/2005 13:00	Extracted:	7/12/2005 21:55
Matrix:	Air	QC Batch#:	2005/07/12-1D.62

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	07/12/2005 21:55	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	07/12/2005 21:55	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	07/12/2005 21:55	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	07/12/2005 21:55	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	07/12/2005 21:55	
Surrogate(s)									
1,2-Dichloroethane-d4	100.3	72-128	%			%	1	07/12/2005 21:55	
Toluene-d8	97.9	80-113	%			%	1	07/12/2005 21:55	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 07/11/2005 18:55

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INLET	Lab ID:	2005-07-0237 - 5
Sampled:	07/11/2005 13:10	Extracted:	7/12/2005 22:21
Matrix:	Air	QC Batch#:	2005/07/12-1D-62

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4500	50	mg/m3	1300	14	ppmv	1	07/12/2005 22:21	
Benzene	48	0.50	mg/m3	15	0.15	ppmv	1	07/12/2005 22:21	
Toluene	190	0.50	mg/m3	50	0.13	ppmv	1	07/12/2005 22:21	
Ethylbenzene	25	0.50	mg/m3	5.7	0.11	ppmv	1	07/12/2005 22:21	
Total xylenes	230	1.0	mg/m3	52	0.23	ppmv	1	07/12/2005 22:21	
Surrogate(s)									
1,2-Dichloroethane-d4	94.4	72-128	%			%	1	07/12/2005 22:21	
Toluene-d8	97.0	80-113	%			%	1	07/12/2005 22:21	

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07/19/2005 12:14

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/07/12-1D-62	
MB: 2005/07/12-1D-62-008				Date Extracted: 07/12/2005 08:08	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/12/2005 08:08	
Benzene	ND	0.5	ug/L	07/12/2005 08:08	
Toluene	ND	0.5	ug/L	07/12/2005 08:08	
Ethylbenzene	ND	0.5	ug/L	07/12/2005 08:08	
Total xylenes	ND	1.0	ug/L	07/12/2005 08:08	
Surrogates(s)					
1,2-Dichloroethane-d4	99.0	73-130	%	07/12/2005 08:08	
Toluene-d8	99.2	81-114	%	07/12/2005 08:08	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/07/12-1D-62			
LCS		2005/07/12-1D-62-042			Extracted: 07/12/2005		Analyzed: 07/12/2005 07:42		
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	22.9		25	91.6			69-129	20		
Toluene	23.6		25	94.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	458		500	91.6			73-130			
Toluene-d8	483		500	96.6			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/11/2005 18:55

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/07/12-1D-62
MS/MSD			Lab ID: 2005-06-0800-001
MS:	2005/07/12-1D-62-045	Extracted: 07/12/2005	Analyzed: 07/12/2005 19:45
			Dilution: 1.00
MSD:	2005/07/12-1D-62-011	Extracted: 07/12/2005	Analyzed: 07/12/2005 20:11
			Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	25.0	24.0	ND	25	100.0	96.0	4.1	69-129	20		
Toluene	26.3	25.0	ND	25	105.2	100.0	5.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	452	451		500	90.4	90.2		73-130			
Toluene-d8	487	481		500	97.4	96.2		81-114			

Severn Trent Laboratories, Inc.

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07/19/2005 12:14

2005-07-0237

Report To					Analysis Request																	
Attn: Kathy Brandt, Stephen Lao, Saurabh Gogale																						
Company: ETIC Engineering																						
Address: 1333 Broadway, Oakland, CA 94612																						
Phone: 510-208-1800 x18 Bill To: ETIC Engineering																						
Email: slao@eticeng.com sgogale@eticeng.com		Sampled By: S. Mulu																				
Sample ID	Date	Time	Matrix	Pre ser	TPH EPA - <input type="checkbox"/> RM (PM2.5) <input type="checkbox"/> PM10 <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Pesticide Analyses BTEX EPA - <input type="checkbox"/> 801 <input type="checkbox"/> 82015	TEPH EPA 801 SA <input type="checkbox"/> Sulfur CH <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 802 <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Oxidation <input type="checkbox"/> DCA, EOH <input type="checkbox"/> Ethanol	Purgeable Hydrocarbons (VOCs) EPA 8021	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8210B <input type="checkbox"/> 824	Semivolatiles GC/MS <input type="checkbox"/> EPA 8210 <input type="checkbox"/> 824	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1661) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8031 <input type="checkbox"/> 804 <input type="checkbox"/> EPA 8032 <input type="checkbox"/> 804	PAHs by <input type="checkbox"/> EPA 8070 <input type="checkbox"/> 8071	CMV Metals (EPA 8013/17/19/21)	Metals <input type="checkbox"/> Lead <input type="checkbox"/> Bismuth <input type="checkbox"/> Boron <input type="checkbox"/> Cadmium	WET (STUG) TCLP	Hexavalent Chromium pH (24h hold time for HCl)	Spec Cond. <input type="checkbox"/> Alkalinity TDS	Acids: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers	
Effluent	7-11-05	1230	H ₂ O	1/10	X		X															
Midfluent		1240	H ₂ O	1/10	X		X															
Influent		1250	H ₂ O	1/10	X		X															
Outlet		100	Air	ND	X																	
Inlet		110	Air	ND	X																	
MW2			H ₂ O		X		X															
MW3			H ₂ O		X		X															

Project Info.		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: Stough Family Trust		# of Containers:		Signature: <i>[Signature]</i> Time: 1855		Signature: _____ Time: _____		Signature: _____ Time: _____	
Project#: TMSFT1 Task: 10.8		Head Space:		Printed Name: <i>[Name]</i> Date: 7/11/05		Printed Name: _____ Date: _____		Printed Name: _____ Date: _____	
PO#: _____		Temp: <i>6/24/05</i>		Company: <i>ETIC</i>		Company: _____		Company: _____	
Credit Card#: _____		Conforms to record: _____		Company: _____		Company: _____		Company: _____	
TAT: <u>5</u> Day 72h 48h 24h Other				4) Received by: <i>[Signature]</i> Time: 1855		2) Received by:		3) Received by:	
Report: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDO <input type="checkbox"/> State Task Fund ED <input type="checkbox"/> Other (ID: 105001054)				Signature: <i>[Signature]</i> Time: 7/11/05		Signature: _____ Time: _____		Signature: _____ Time: _____	
Special Instructions / Comments:				Printed Name: <i>STL SF</i> Date: _____		Printed Name: _____ Date: _____		Printed Name: _____ Date: _____	
				Company: _____		Company: _____		Company: _____	

ETIC Oakland

July 28, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Kathy Brandt

Project#: TMSFT1 Task 10.8

Project: Strough Family Trust

Kathy

Attached is our report for your samples received on 07/18/2005 18:21

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/01/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW2	07/18/2005 13:50	Water	1
MW3	07/18/2005 13:35	Water	2
MW4	07/18/2005 14:20	Water	3

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07/26/2005 17:46

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW2	Lab ID:	2005-07-0459-1
Sampled:	07/18/2005 13:50	Extracted:	7/23/2005 09:07
Matrix:	Water	QC Batch#:	2005/07/23-04-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	17000	250	ug/L	5.00	07/26/2005 12:32	
<i>Surrogate(s)</i> o-Terphenyl	NA	60-130	%	5.00	07/26/2005 12:32	S3

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07/26/2005 17:46

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW3	Lab ID:	2005-07-0459 - 2
Sampled:	07/18/2005 13:35	Extracted:	7/23/2005 09:07
Matrix:	Water	QC Batch#:	2005/07/23-04-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	1700	50	ug/L	1.00	07/26/2005 01:18	
<i>Surrogate(s)</i> o-Terphenyl	70.9	60-130	%	1.00	07/26/2005 01:18	

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW4	Lab ID:	2005-07-0459-3
Sampled:	07/18/2005 14:20	Extracted:	7/23/2005 09:07
Matrix:	Water	QC Batch#:	2005/07/23-04-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	1.00	07/25/2005 21:42	
<i>Surrogate(s)</i>						
o-Terphenyl	75.8	60-130	%	1.00	07/25/2005 21:42	

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report					
Prep(s): 3510/8015M				Test(s): 8015M	
Method Blank		Water		QC Batch # 2005/07/23-04-10	
MB: 2005/07/23-04-10-001				Date Extracted: 07/23/2005 09:07	

Compound	Conc.	RL	Unit	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	07/25/2005 12:42	
<i>Surrogates(s)</i> o-Terphenyl	89.2	60-130	%	07/25/2005 12:42	

Severn Trent Laboratories, Inc.

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07/26/2005 17:46

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report			
Prep(s): 3510/8015M		Test(s): 8015M	
Laboratory Control Spike		Water	QC Batch # 2005/07/23-04_10
LCS	2005/07/23-04_10-002	Extracted: 07/23/2005	Analyzed: 07/25/2005 11:21
LCSD	2005/07/23-04_10-003	Extracted: 07/23/2005	Analyzed: 07/25/2005 11:48

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
DRO (C10-C28)	739	693	1000	73.9	69.3	6.4	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	17.6	16.5	20.0	87.8	82.7		60-130	0		

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Legend and Notes

Result Flag

S3

Surrogate recovery not reportable due to required dilution.

Severn Trent Laboratories, Inc.

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07/26/2005 17:46

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 07/18/2005 18:21

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW2	07/18/2005 13:50	Water	1
MW3	07/18/2005 13:35	Water	2
MW4	07/18/2005 14:20	Water	3

Severn Trent Laboratories, Inc.

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07/27/2005 17:58

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW2	Lab ID:	2005-07-0459 - 1
Sampled:	07/18/2005 13:50	Extracted:	7/25/2005 13:11
Matrix:	Water	QC Batch#:	2005/07/25-01.68
Analysis Flag: L2, pH: <2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	120000	10000	ug/L	200.00	07/25/2005 13:11	
Methyl tert-butyl ether (MTBE)	530	100	ug/L	200.00	07/25/2005 13:11	
Benzene	2700	100	ug/L	200.00	07/25/2005 13:11	
Toluene	13000	100	ug/L	200.00	07/25/2005 13:11	
Ethylbenzene	1800	100	ug/L	200.00	07/25/2005 13:11	
Total xylenes	15000	200	ug/L	200.00	07/25/2005 13:11	
Surrogate(s)						
1,2-Dichloroethane-d4	107.0	73-130	%	200.00	07/25/2005 13:11	
Toluene-d8	101.8	81-114	%	200.00	07/25/2005 13:11	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW3	Lab ID: 2005-07-0459 - 2
Sampled: 07/18/2005 13:35	Extracted: 7/24/2005 01:19
Matrix: Water	QC Batch#: 2005/07/23-02:66
Analysis Flag: L2, pH <2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	23000	2500	ug/L	50.00	07/24/2005 01:19	
Methyl tert-butyl ether (MTBE)	81	25	ug/L	50.00	07/24/2005 01:19	
Benzene	1000	25	ug/L	50.00	07/24/2005 01:19	
Toluene	5600	25	ug/L	50.00	07/24/2005 01:19	
Ethylbenzene	1100	25	ug/L	50.00	07/24/2005 01:19	
Total xylenes	4300	50	ug/L	50.00	07/24/2005 01:19	
Surrogate(s)						
1,2-Dichloroethane-d4	96.0	73-130	%	50.00	07/24/2005 01:19	
Toluene-d8	102.9	81-114	%	50.00	07/24/2005 01:19	

Fuel Oxygenates by 8260B

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Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW4	Lab ID: 2005-07-0459 - 3
Sampled: 07/18/2005 14:20	Extracted: 7/25/2005 14:17
Matrix: Water	QC Batch#: 2005/07/25-01 66
Analysis Flag: L2, pH: <2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	540	500	ug/L	10.00	07/25/2005 14:17	Q6
Methyl tert-butyl ether (MTBE)	1100	5.0	ug/L	10.00	07/25/2005 14:17	
Benzene	11	5.0	ug/L	10.00	07/25/2005 14:17	
Toluene	ND	5.0	ug/L	10.00	07/25/2005 14:17	
Ethylbenzene	ND	5.0	ug/L	10.00	07/25/2005 14:17	
Total xylenes	ND	10	ug/L	10.00	07/25/2005 14:17	
Surrogate(s)						
1,2-Dichloroethane-d4	128.0	73-130	%	10.00	07/25/2005 14:17	
Toluene-d8	100.1	81-114	%	10.00	07/25/2005 14:17	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method: Blank		Water		QC Batch # 2005/07/23-02-66	
MB: 2005/07/23-02-66-027				Date Extracted: 07/23/2005 18:27	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/23/2005 18:27	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/23/2005 18:27	
Benzene	ND	0.5	ug/L	07/23/2005 18:27	
Toluene	ND	0.5	ug/L	07/23/2005 18:27	
Ethylbenzene	ND	0.5	ug/L	07/23/2005 18:27	
Total xylenes	ND	1.0	ug/L	07/23/2005 18:27	
Surrogates(s)					
1,2-Dichloroethane-d4	137.6	73-130	%	07/23/2005 18:27	S7
Toluene-d8	101.6	81-114	%	07/23/2005 18:27	

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/07/25-01.66
MB: 2005/07/25-01.66-010		Date Extracted: 07/25/2005 07:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/25/2005 07:09	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/25/2005 07:09	
Benzene	ND	0.5	ug/L	07/25/2005 07:09	
Toluene	ND	0.5	ug/L	07/25/2005 07:09	
Ethylbenzene	ND	0.5	ug/L	07/25/2005 07:09	
Total xylenes	ND	1.0	ug/L	07/25/2005 07:09	
Surrogates(s)					
1,2-Dichloroethane-d4	93.8	73-130	%	07/25/2005 07:09	
Toluene-d8	102.8	81-114	%	07/25/2005 07:09	

Fuel Oxygenates by 8260B

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Oakland, CA 94612

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/07/25-01.68	
MB: 2005/07/25-01.68-028				Date Extracted: 07/25/2005 08:28	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/25/2005 08:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/25/2005 08:28	
Benzene	ND	0.5	ug/L	07/25/2005 08:28	
Toluene	ND	0.5	ug/L	07/25/2005 08:28	
Ethylbenzene	ND	0.5	ug/L	07/25/2005 08:28	
Total xylenes	ND	1.0	ug/L	07/25/2005 08:28	
Surrogates(s)					
1,2-Dichloroethane-d4	100.8	73-130	%	07/25/2005 08:28	
Toluene-d8	100.8	81-114	%	07/25/2005 08:28	

Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Water	QC Batch # 2005/07/23-02.66	
LCS 2005/07/23-02.66-056	Extracted: 07/23/2005	Analyzed: 07/23/2005 16:56	
LCSD			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	27.9		25.0	111.6			65-165	20		
Benzene	20.0		25.0	80.0			69-129	20		
Toluene	27.7		25.0	110.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	492		500	98.4			73-130			
Toluene-d8	493		500	98.6			81-114			

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07/27/2005 17:58

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	QC Batch # 2005/07/25-01.66
LCS	2005/07/25-01.66-046	Extracted: 07/25/2005	Analyzed: 07/25/2005 06:46
LCSD	2005/07/25-01.66-009	Extracted: 07/25/2005	Analyzed: 07/25/2005 08:09

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.5	27.0	25.0	102.0	108.0	5.7	65-165	20		
Benzene	22.5	23.8	25.0	90.0	95.2	5.6	69-129	20		
Toluene	28.0	27.3	25.0	112.0	109.2	2.5	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	438	441	500	87.6	88.2		73-130			
Toluene-d8	508	484	500	101.6	96.8		81-114			

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Fuel Oxygenates by 8260B

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	QC Batch # 2005/07/25-01.68
LCS:	2005/07/25-01.68-002	Extracted: 07/25/2005	Analyzed: 07/25/2005 08:02
LCSD:	2005/07/25-01.68-027	Extracted: 07/25/2005	Analyzed: 07/25/2005 11:27

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	20.7	25.2	25.0	82.8	100.8	19.6	65-165	20		
Benzene	23.7	25.2	25.0	94.8	100.8	6.1	69-129	20		
Toluene	23.2	25.2	25.0	92.8	100.8	8.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	437	435	500	87.4	87.0		73-130			
Toluene-d8	523	517	500	104.6	103.4		81-114			

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/07/23-02.66
MS/MSD		Lab ID:	2005-07-0386-003
MS:	2005/07/23-02.66-028	Extracted:	07/23/2005
		Analyzed:	07/23/2005 20:27
		Dilution:	1.00
MSD:	2005/07/23-02.66-049	Extracted:	07/23/2005
		Analyzed:	07/23/2005 20:49
		Dilution:	1.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	27.1	24.8	ND	25.0	108.4	99.2	8.9	65-165	20		
Benzene	19.5	20.7	ND	25.0	78.0	82.8	6.0	69-129	20		
Toluene	27.7	28.8	ND	25.0	110.8	115.2	3.9	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	430	431		500	86.0	86.2		73-130			
Toluene-d8	506	516		500	101.2	103.2		81-114			

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water	QC Batch #	2005/07/25-01-66
MS/MSD		Lab ID:	2005-07-0525-001
MS: 2005/07/25-01-66-049	Extracted: 07/25/2005	Analyzed:	07/25/2005 10:49
		Dilution:	10.00
MSD: 2005/07/25-01-66-011	Extracted: 07/25/2005	Analyzed:	07/25/2005 11:11
		Dilution:	10.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	518	502	235	250	113.2	106.8	5.8	65-165	20		
Benzene	222	228	2.87	250	87.7	90.1	2.7	69-129	20		
Toluene	270	290	3.14	250	106.7	114.7	7.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	519	477		500	103.8	95.4		73-130			
Toluene-d8	519	518		500	103.8	103.6		81-114			

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 07/18/2005 18:21

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/07/25-01.68
MS/MSD			Lab ID: 2005-07-0461-001
MS:	2005/07/25-01.68-043	Extracted: 07/25/2005	Analyzed: 07/25/2005 09:43
			Dilution: 10.00
MSD:	2005/07/25-01.68-009	Extracted: 07/25/2005	Analyzed: 07/25/2005 10:09
			Dilution: 10.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	6910	7490	7500	250	-236.0	-4.0	-193	65-165	20	M3	M3,R1
Benzene	241	259	ND	250	96.4	103.6	7.2	69-129	20		
Toluene	229	261	ND	250	91.6	104.4	13.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	430	428		500	86.0	85.6		73-130			
Toluene-d8	487	520		500	97.4	104.0		81-114			

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07/27/2005 17:58

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 07/18/2005 18:21

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

M3

Sample > 4x spike concentration.

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

Severn Trent Laboratories, Inc.

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07/27/2005 17:58

Page 14 of 14

SEVERN
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STL
2005-07-0459

STL San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: www.stl-inc.com

Reference #: 116078

Date: 7-18-05 Page: 6 of 7

Report To Analysis Request

Attn: Kathy Brandt, Stephen Lao, Saurabh Gogale
Company: ETIC Engineering
Address: 1333 Broadway, Oakland, CA 94612
Phone: 510-208-1800 x18 Bill To: ETIC Engineering
Email: slao@eticeng.com
Sampled By: *S. M. Lao*
eticeng@eticeng.com

TPH EPA: 8015M 8018
 Gas W/ BTEX MTBE
Fluorinated Aromatics
BTX EPA: 8021 8028
TEPH EPA: 8015M Silica Gel
 Diesel Motor Oil Other
Fuel Tests EPA: 8018 Gas BTEX P/B
Operates DCA EOB Eluent
Purgeable Halocarbons
(HVOCs) EPA 8021
Volatile Organics GC/MS (VOCs)
 EPA 8210B 924
Semi-volatiles GC/MS
 EPA 8270 825
Oil and Grease Petrochem
(EPA 1631) Total
Pesticides EPA 8061 608
 PCBs EPA 8082 603
RNAs by: 8270 8310
CMM17 Metals
(EPA 6010/7470/7471)
Metals: Lead LUFT RCRA
 Other
 W.E.T. (STLC)
 TCLP
Hexavalent Chromium
 pH (24h hold time for HCl)
Spec Cond: Alkalinity
 TSS
Anions: Cl SO₄ NO₃ F
 Br NO₂ PO₄

Sample ID	Date	Time	Meth x	Pre ser v.	TPH EPA	Fluorinated Aromatics	TEPH EPA	Fuel Tests	Purgeable Halocarbons	Volatile Organics	Semi-volatiles	Oil and Grease	Pesticides	RNAs	CMM17 Metals	Metals	W.E.T.	Hexavalent Chromium	Spec Cond	Anions	Number of Containers	
Effluent			H ₂ O		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>															
Midstream			H ₂ O		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>															
Influent			H ₂ O		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>															
Outlet			Air		<input checked="" type="checkbox"/>																	
Inlet			Air		<input checked="" type="checkbox"/>																	
MW2	7-18-05	150	H ₂ O		X		X															
MW3		135	H ₂ O		X		X															
MW4		200	W		X		X															

Project Info.		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: Srough Family Trust		# of Containers:		Signature: <i>S. M. Lao</i> 18/05		Signature: _____		Signature: _____	
Project#: TMSFT1: Task 10.8		Head Spacer:		Printed Name: _____		Printed Name: _____		Printed Name: _____	
PO#:		Temp: 5°C		Date: 7/18/05		Date: _____		Date: _____	
Credit Card#:		Conforms to record:		Company: _____		Company: _____		Company: _____	
TAT: 5 Day		Other:		1) Received by: <i>K. B. Gogale</i> 18/05		2) Received by: _____		3) Received by: _____	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EOB <input type="checkbox"/> State Task Fund EOB				Signature: _____		Signature: _____		Signature: _____	
Special Instructions / Comments:				Printed Name: _____		Printed Name: _____		Printed Name: _____	
				Company: STL		Company: _____		Company: _____	

ETIC Oakland

August 10, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Kathy Brandt

Project#: TMSFT1 Task 10.8

Project: Strough Family Trust

Kathy

Attached is our report for your samples received on 08/01/2005 16:06

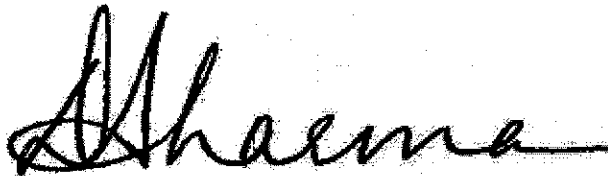
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/15/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	08/01/2005 10:30	Water	1
MIDFLUENT	08/01/2005 10:40	Water	2
INFLUENT	08/01/2005 10:50	Water	3

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Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFLUENT	Lab ID:	2005-08-0026 - 1
Sampled:	08/01/2005 10:30	Extracted:	8/7/2005 13:29
Matrix:	Water	QC Batch#:	2005/08/07-01.68
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/07/2005 13:29	
Benzene	ND	0.50	ug/L	1.00	08/07/2005 13:29	
Toluene	ND	0.50	ug/L	1.00	08/07/2005 13:29	
Ethylbenzene	ND	0.50	ug/L	1.00	08/07/2005 13:29	
Total xylenes	ND	1.0	ug/L	1.00	08/07/2005 13:29	
Surrogate(s)						
1,2-Dichloroethane-d4	101.4	73-130	%	1.00	08/07/2005 13:29	
Toluene-d8	89.4	81-114	%	1.00	08/07/2005 13:29	

Fuel Oxygenates by 8260B

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Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MIDFLUENT	Lab ID:	2005-08-0026-2
Sampled:	08/01/2005 10:40	Extracted:	8/8/2005 21:58
Matrix:	Water	QC Batch#:	2005/08/08-01.65
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/08/2005 21:58	
Benzene	ND	0.50	ug/L	1.00	08/08/2005 21:58	
Toluene	ND	0.50	ug/L	1.00	08/08/2005 21:58	
Ethylbenzene	ND	0.50	ug/L	1.00	08/08/2005 21:58	
Total xylenes	ND	1.0	ug/L	1.00	08/08/2005 21:58	
Surrogate(s)						
1,2-Dichloroethane-d4	103.8	73-130	%	1.00	08/08/2005 21:58	
Toluene-d8	103.9	81-114	%	1.00	08/08/2005 21:58	

Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 08/01/2005 16:06

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFLUENT	Lab ID: 2005-08-0026-3
Sampled: 08/01/2005 10:50	Extracted: 8/8/2005 14:11
Matrix: Water	QC Batch#: 2005/08/08-01.68
Analysis Flag: L2, pH: <2. (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	25000	2000	ug/L	40.00	08/08/2005 14:11	
Benzene	490	20	ug/L	40.00	08/08/2005 14:11	
Toluene	2600	20	ug/L	40.00	08/08/2005 14:11	
Ethylbenzene	150	20	ug/L	40.00	08/08/2005 14:11	
Total xylenes	4200	40	ug/L	40.00	08/08/2005 14:11	
Surrogate(s)						
1,2-Dichloroethane-d4	112.5	73-130	%	40.00	08/08/2005 14:11	
Toluene-d8	99.1	81-114	%	40.00	08/08/2005 14:11	

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Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank	Water			QC Batch # 2005/08/07-01.68	
MB: 2005/08/07-01.68-030				Date Extracted: 08/07/2005 09:30	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/07/2005 09:30	
Benzene	ND	0.5	ug/L	08/07/2005 09:30	
Toluene	ND	0.5	ug/L	08/07/2005 09:30	
Ethylbenzene	ND	0.5	ug/L	08/07/2005 09:30	
Total xylenes	ND	1.0	ug/L	08/07/2005 09:30	
Surrogates(s)					
1,2-Dichloroethane-d4	101.4	73-130	%	08/07/2005 09:30	
Toluene-d8	99.4	81-114	%	08/07/2005 09:30	

Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015

Oakland, CA 94612

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/08/08-01-65	
MB: 2005/08/08-01-65-053				Date Extracted: 08/08/2005 08:53	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/08/2005 08:53	
Benzene	ND	0.5	ug/L	08/08/2005 08:53	
Toluene	ND	0.5	ug/L	08/08/2005 08:53	
Ethylbenzene	ND	0.5	ug/L	08/08/2005 08:53	
Total xylenes	ND	1.0	ug/L	08/08/2005 08:53	
Surrogates(s)					
1,2-Dichloroethane-d4	98.5	73-130	%	08/08/2005 08:53	
Toluene-d8	95.0	81-114	%	08/08/2005 08:53	

Fuel Oxygenates by 8260B

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Oakland, CA 94612
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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/08/08-01.68
MB: 2005/08/08-01.68-054		Date Extracted: 08/08/2005 08:54

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/08/2005 08:54	
Benzene	ND	0.5	ug/L	08/08/2005 08:54	
Toluene	ND	0.5	ug/L	08/08/2005 08:54	
Ethylbenzene	ND	0.5	ug/L	08/08/2005 08:54	
Total xylenes	ND	1.0	ug/L	08/08/2005 08:54	
Surrogates(s)					
1,2-Dichloroethane-d4	99.2	73-130	%	08/08/2005 08:54	
Toluene-d8	103.4	81-114	%	08/08/2005 08:54	

Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	QC Batch # 2005/08/07-01.68
LCS	2005/08/07-01.68-001	Extracted: 08/07/2005	Analyzed: 08/07/2005 08:38
LCSD	2005/08/07-01.68-002	Extracted: 08/07/2005	Analyzed: 08/07/2005 09:04

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	28.1	25.8	25.0	112.4	103.2	8.5	69-129	20		
Toluene	25.9	24.0	25.0	103.6	96.0	7.6	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	406	399	500	81.2	79.8		73-130	0		
Toluene-d8	532	485	500	106.4	97.0		81-114	0		

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Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/08/08-01.65			
LCS: 2005/08/08-01.65-027			Extracted: 08/08/2005			Analyzed: 08/08/2005 08:27			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	20.7		25.0	82.8			69-129	20		
Toluene	21.1		25.0	84.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	476		500	95.2			73-130			
Toluene-d8	495		500	99.0			81-114			

Fuel Oxygenates by 8260B

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/08/08-01.68			
LCS		2005/08/08-01.68-028			Extracted: 08/08/2005		Analyzed: 08/08/2005 08:28		
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.4		25.0	97.6			69-129	20		
Toluene	23.2		25.0	92.8			70-130	20		
<i>Surrogates(s)</i>										
1,2-Dichloroethane-d4	423		500	84.6			73-130			
Toluene-d8	537		500	107.4			81-114			

Fuel Oxygenates by 8260B

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Oakland, CA 94612
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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/08/07-01-68
MS/MSD		Lab ID:	2005-08-0125-013
MS:	2005/08/07-01-68-027	Extracted:	08/07/2005
		Analyzed:	08/07/2005 10:27
		Dilution:	40.00
MSD:	2005/08/07-01-68-053	Extracted:	08/07/2005
		Analyzed:	08/07/2005 10:53
		Dilution:	40.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	950	1050	ND	1000	95.0	105.0	10.0	69-129	20		
Toluene	892	962	1.66	1000	89.0	96.0	7.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	409	419		500	81.8	83.8		73-130			
Toluene-d8	477	519		500	95.4	103.8		81-114			

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

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Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water	QC Batch #	2005/08/08-01.65
MS/MSD		Lab ID:	2005-08-0006-001
MS: 2005/08/08-01.65-050	Extracted: 08/08/2005	Analyzed:	08/08/2005 09:50
		Dilution:	1.00
MSD: 2005/08/08-01.65-016	Extracted: 08/08/2005	Analyzed:	08/08/2005 10:16
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	25.1	24.8	ND	25.0	100.4	99.2	1.2	69-129	20		
Toluene	24.2	25.9	ND	25.0	96.8	103.6	6.8	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	479	492		500	95.7	98.4		73-130			
Toluene-d8	491	491		500	98.2	98.2		81-114			

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Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015
Oakland, CA 94612
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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water		QC Batch # 2005/08/08-01-68
MS/MSD	Lab ID:		2005-08-0005 - 011
MS: 2005/08/08-01-68-051	Extracted: 08/08/2005	Analyzed:	08/08/2005 09:51
		Dilution:	10.00
MSD: 2005/08/08-01-68-017	Extracted: 08/08/2005	Analyzed:	08/08/2005 10:17
		Dilution:	10.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	205	217	41.0	250	65.6	86.8	27.8	69-129	20	M5	R1
Toluene	200	207	4.28	250	78.3	82.8	5.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	428	438		500	85.6	87.6		73-130			
Toluene-d8	492	507		500	98.4	101.4		81-114			

Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015
Oakland, CA 94612
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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits. See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

Diesel with Silica Gel Clean-up

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	08/01/2005 10:30	Water	1
MIDFLUENT	08/01/2005 10:40	Water	2
INFLUENT	08/01/2005 10:50	Water	3

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08/08/2005 19:21

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 08/01/2005 16:06

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	EFFLUENT	Lab ID:	2005-08-0026 - 1
Sampled:	08/01/2005 10:30	Extracted:	8/5/2005 07:24
Matrix:	Water	QC Batch#:	2005/08/05-01-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	08/05/2005 19:09	
<i>Surrogate(s)</i> o-Terphenyl	89.2	60-130	%	1.00	08/05/2005 19:09	

Diesel with Silica Gel Clean-up

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Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MIDFLUENT	Lab ID:	2005-08-0026 - 2
Sampled:	08/01/2005 10:40	Extracted:	8/5/2005 07:24
Matrix:	Water	QC Batch#:	2005/08/05-01:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	08/05/2005 19:35	
Surrogate(s)						
o-Terphenyl	87.2	60-130	%	1.00	08/05/2005 19:35	

Diesel with Silica Gel Clean-up

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Attn.: Kathy Brandt

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	INFLUENT	Lab ID:	2005-08-0026 - 3
Sampled:	08/01/2005 10:50	Extracted:	8/5/2005 07:24
Matrix:	Water	QC Batch#:	2005/08/05-01 10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	3200	50	ug/L	1.00	08/05/2005 20:02	Q2
<i>Surrogate(s)</i> o-Terphenyl	78.9	60-130	%	1.00	08/05/2005 20:02	

Diesel with Silica Gel Clean-up

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Oakland, CA 94612
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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report					
Prep(s): 3510/8015M	Water			Test(s): 8015M	
Method Blank DIESEL				QC Batch # 2005/08/05-01-10	
MB: 2005/08/05-01-10-007				Date Extracted: 08/05/2005 07:24	

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	08/05/2005 17:55	
Surrogates(s) o-Terphenyl	97.4	60-130	%	08/05/2005 17:55	

Diesel with Silica Gel Clean-up

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Oakland, CA 94612

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Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report		
Prep(s): 3510/8015M	Test(s): 8015M	
Laboratory Control Spike DIESEL	Water	QC Batch # 2005/08/05-01 10
LCS: 2005/08/05-01 10-008	Extracted: 08/05/2005	Analyzed: 08/05/2005 23:12
LCSD: 2005/08/05-01 10-009	Extracted: 08/05/2005	Analyzed: 08/05/2005 23:39

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	770	749	1000	77.0	74.9	2.8	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	17.8	17.3	20.0	88.8	86.3		60-130	0		

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Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

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1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 08/01/2005 16:06

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	08/01/2005 11:30	Air	4
INLET	08/01/2005 11:50	Air	5

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08/02/2005 15:39

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Prep(s):	5030B	Test(s):	8260B
Sample ID:	OUTLET	Lab ID:	2005-08-0026 - 4
Sampled:	08/01/2005 11:30	Extracted:	8/1/2005 21:02
Matrix:	Air	QC Batch#:	2005/08/01-1B-64

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	08/01/2005 21:02	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	08/01/2005 21:02	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	08/01/2005 21:02	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	08/01/2005 21:02	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	08/01/2005 21:02	
Surrogate(s)									
1,2-Dichloroethane-d4	111.9	72-128	%			%	1	08/01/2005 21:02	
Toluene-d8	86.3	80-113	%			%	1	08/01/2005 21:02	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Prep(s): 5030B	Test(s): 8260B
Sample ID: INLET	Lab ID: 2005-08-0026-5
Sampled: 08/01/2005 11:50	Extracted: 8/1/2005 21:27
Matrix: Air	QC Batch#: 2005/08/01-1B-64
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3300	250	mg/m3	920	70	ppmv	5	08/01/2005 21:27	
Benzene	44	2.5	mg/m3	14	0.77	ppmv	5	08/01/2005 21:27	
Toluene	190	2.5	mg/m3	50	0.65	ppmv	5	08/01/2005 21:27	
Ethylbenzene	26	2.5	mg/m3	5.9	0.57	ppmv	5	08/01/2005 21:27	
Total xylenes	180	5.0	mg/m3	41	1.1	ppmv	5	08/01/2005 21:27	
Surrogate(s)									
1,2-Dichloroethane-d4	114.6	72-128	%			%	5	08/01/2005 21:27	
Toluene-d8	87.8	80-113	%			%	5	08/01/2005 21:27	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/08/01-1B.64	
MB: 2005/08/01-1B.64-059				Date Extracted: 08/01/2005 13:59	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/01/2005 13:59	
Benzene	ND	0.5	ug/L	08/01/2005 13:59	
Toluene	ND	0.5	ug/L	08/01/2005 13:59	
Ethylbenzene	ND	0.5	ug/L	08/01/2005 13:59	
Total xylenes	ND	1.0	ug/L	08/01/2005 13:59	
Surrogates(s)					
1,2-Dichloroethane-d4	111.2	73-130	%	08/01/2005 13:59	
Toluene-d8	97.6	81-114	%	08/01/2005 13:59	

Gas/BTEX Fuel Oxygenates by 8260B

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report										
Prep(s): 6030B						Test(s): 8260B				
Laboratory Control Spike				Water			QC Batch # 2005/08/01-1B-64			
LCS	2005/08/01-1B-64-033			Extracted: 08/01/2005			Analyzed: 08/01/2005 13:33			
LCSD	2005/08/01-1B-64-006			Extracted: 08/01/2005			Analyzed: 08/01/2005 15:06			
Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	27.3	22.4	25	109.2	89.6	19.7	69-129	20		
Toluene	28.7	25.3	25	114.8	101.2	12.6	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	577	549	500	115.4	109.8		73-130			
Toluene-d8	448	495	500	89.6	99.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 08/01/2005 16:06

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/08/01-1B.64
MS/MSD		Lab ID	2005-07-0659-002
MS: 2005/08/01-1B.64-031		Extracted: 08/01/2005	Analyzed: 08/01/2005 15:31
			Dilution: 1.00
MSD: 2005/08/01-1B.64-057		Extracted: 08/01/2005	Analyzed: 08/01/2005 15:57
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	23.3	24.0	ND	25	93.2	96.0	3.0	69-129	20		
Toluene	24.5	24.2	ND	25	98.0	96.8	1.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	576	528		500	115.2	105.6		73-130			
Toluene-d8	495	457		500	99.0	91.4		81-114			

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Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 08/01/2005 16:06

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

SEVERN
TRENT

STL

3005-08-0026

STL San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: www.stl-inc.com

Reference #: 117197

Date 8-1-05 Page 1 of 1

Report To					Analysis Request															Number of Containers																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Attn: Kathy Brandt, Stephen Lao, Saurabh Gogate Company: ETIC Engineering Address: 1333 Broadway, Oakland, CA 94612 Phone: 510-208-1800 x18 Bill To: ETIC Engineering Email: slao@eticeng.com Sgonate@eticeng.com Sampled By: S. Merwin					<input type="checkbox"/> TPH EPA-80102	<input type="checkbox"/> EPA-80103	<input type="checkbox"/> EPA-80104	<input type="checkbox"/> EPA-80105	<input type="checkbox"/> EPA-80106	<input type="checkbox"/> EPA-80107	<input type="checkbox"/> EPA-80108	<input type="checkbox"/> EPA-80109	<input type="checkbox"/> EPA-80110	<input type="checkbox"/> EPA-80111	<input type="checkbox"/> EPA-80112	<input type="checkbox"/> EPA-80113	<input type="checkbox"/> EPA-80114	<input type="checkbox"/> EPA-80115	<input type="checkbox"/> EPA-80116		<input type="checkbox"/> EPA-80117	<input type="checkbox"/> EPA-80118	<input type="checkbox"/> EPA-80119	<input type="checkbox"/> EPA-80120	<input type="checkbox"/> EPA-80121	<input type="checkbox"/> EPA-80122	<input type="checkbox"/> EPA-80123	<input type="checkbox"/> EPA-80124	<input type="checkbox"/> EPA-80125	<input type="checkbox"/> EPA-80126	<input type="checkbox"/> EPA-80127	<input type="checkbox"/> EPA-80128	<input type="checkbox"/> 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type="checkbox"/> EPA-80614	<input type="checkbox"/> EPA-80615	<input type="checkbox"/> EPA-80616	<input type="checkbox"/> EPA-80617	<input type="checkbox"/> EPA-80618	<input type="checkbox"/> EPA-80619	<input type="checkbox"/> EPA-80620	<input type="checkbox"/> EPA-80621	<input type="checkbox"/> EPA-80622	<input type="checkbox"/> EPA-80623	<input type="checkbox"/> EPA-80624	<input type="checkbox"/> EPA-80625	<input type="checkbox"/> EPA-80626	<input type="checkbox"/> EPA-80627	<input type="checkbox"/> EPA-80628	<input type="checkbox"/> EPA-80629	<input type="checkbox"/> EPA-80630	<input type="checkbox"/> EPA-80631	<input type="checkbox"/> EPA-80632	<input type="checkbox"/> EPA-80633	<input type="checkbox"/> EPA-80634	<input type="checkbox"/> EPA-80635	<input type="checkbox"/> EPA-80636	<input type="checkbox"/> EPA-80637	<input type="checkbox"/> EPA-80638	<input type="checkbox"/> EPA-80639	<input type="checkbox"/> EPA-80640	<input type="checkbox"/> EPA-80641	<input type="checkbox"/> EPA-80642	<input type="checkbox"/> EPA-80643	<input type="checkbox"/> EPA-80644	<input type="checkbox"/> EPA-80645	<input type="checkbox"/> EPA-80646	<input type="checkbox"/> EPA-80647	<input type="checkbox"/> EPA-80648	<input type="checkbox"/> EPA-80649	<input type="checkbox"/> EPA-80650	<input type="checkbox"/> EPA-80651	<input type="checkbox"/> EPA-80652	<input type="checkbox"/> EPA-80653	<input type="checkbox"/> EPA-80654	<input type="checkbox"/> EPA-80655	<input type="checkbox"/> EPA-80656	<input type="checkbox"/> EPA-80657	<input type="checkbox"/> EPA-80658	<input type="checkbox"/> EPA-80659	<input type="checkbox"/> EPA-80660	<input type="checkbox"/> EPA-80661	<input type="checkbox"/> EPA-80662	<input type="checkbox"/> EPA-80663	<input type="checkbox"/> EPA-80664	<input type="checkbox"/> EPA-80665	<input type="checkbox"/> EPA-80666	<input type="checkbox"/> EPA-80667	<input type="checkbox"/> EPA-80668	<input type="checkbox"/> EPA-80669	<input type="checkbox"/> EPA-80670	<input type="checkbox"/> EPA-80671	<input type="checkbox"/> EPA-80672	<input type="checkbox"/> EPA-80673	<input type="checkbox"/> EPA-80674	<input type="checkbox"/> EPA-80675	<input type="checkbox"/> EPA-80676	<input type="checkbox"/> EPA-80677	<input type="checkbox"/> EPA-80678	<input type="checkbox"/> EPA-80679	<input type="checkbox"/> EPA-80680	<input type="checkbox"/> EPA-80681	<input type="checkbox"/> EPA-80682	<input type="checkbox"/> EPA-80683	<input type="checkbox"/> EPA-80684	<input type="checkbox"/> EPA-80685	<input type="checkbox"/> EPA-80686	<input type="checkbox"/> EPA-80687	<input type="checkbox"/> EPA-80688	<input type="checkbox"/> EPA-80689	<input type="checkbox"/> EPA-80690	<input type="checkbox"/> EPA-80691	<input type="checkbox"/> EPA-80692	<input type="checkbox"/> EPA-80693	<input type="checkbox"/> EPA-80694	<input type="checkbox"/> EPA-80695	<input type="checkbox"/> EPA-80696	<input type="checkbox"/> EPA-80697	<input type="checkbox"/> EPA-80698	<input type="checkbox"/> EPA-80699	<input type="checkbox"/> EPA-80700	<input type="checkbox"/> EPA-80701	<input type="checkbox"/> EPA-80702	<input type="checkbox"/> EPA-80703	<input type="checkbox"/> EPA-80704	<input type="checkbox"/> EPA-80705	<input type="checkbox"/> EPA-80706	<input type="checkbox"/> EPA-80707	<input type="checkbox"/> EPA-80708	<input type="checkbox"/> EPA-80709	<input type="checkbox"/> EPA-80710	<input type="checkbox"/> EPA-80711	<input type="checkbox"/> EPA-80712	<input type="checkbox"/> EPA-80713	<input type="checkbox"/> EPA-80714	<input type="checkbox"/> EPA-80715	<input type="checkbox"/> EPA-80716	<input type="checkbox"/> EPA-80717	<input type="checkbox"/> EPA-80718	<input type="checkbox"/> EPA-80719	<input type="checkbox"/> EPA-80720	<input type="checkbox"/> EPA-80721	<input type="checkbox"/> EPA-80722	<input type="checkbox"/> EPA-80723	<input type="checkbox"/> EPA-80724	<input type="checkbox"/> EPA-80725	<input type="checkbox"/> EPA-80726	<input type="checkbox"/> EPA-80727	<input type="checkbox"/> EPA-80728	<input type="checkbox"/> EPA-80729	<input type="checkbox"/> EPA-80730	<input type="checkbox"/> EPA-80731	<input type="checkbox"/> EPA-80732	<input type="checkbox"/> EPA-80733	<input type="checkbox"/> EPA-80734	<input type="checkbox"/> EPA-80735	<input type="checkbox"/> EPA-80736	<input type="checkbox"/> EPA-80737	<input type="checkbox"/> EPA-80738	<input type="checkbox"/> EPA-80739	<input type="checkbox"/> EPA-80740	<input type="checkbox"/> EPA-80741	<input type="checkbox"/> EPA-80742	<input type="checkbox"/> EPA-80743	<input type="checkbox"/> EPA-80744	<input type="checkbox"/> EPA-80745	<input type="checkbox"/> EPA-80746	<input type="checkbox"/> EPA-80747	<input type="checkbox"/> EPA-80748	<input type="checkbox"/> EPA-80749	<input type="checkbox"/> EPA-80750	<input type="checkbox"/> EPA-80751	<input type="checkbox"/> EPA-80752	<input type="checkbox"/> EPA-80753	<input type="checkbox"/> EPA-80754	<input type="checkbox"/> EPA-80755	<input type="checkbox"/> EPA-80756	<input type="checkbox"/> EPA-80757

Sample Receipt Checklist

Submission #: 2005- 08-0076

Checklist completed by:	<u>JOE</u>	DATE	<u>8-2</u>
Courier: <input type="checkbox"/> STL SF	Courier <input type="checkbox"/> Fedex	UPS	Other
			Client <input checked="" type="checkbox"/>

Log-In Details		Yes	No	Comments
1	Custody seals intact on shipping container/samples		<input checked="" type="checkbox"/>	
2	Chain of custody present?		<input checked="" type="checkbox"/>	
3	Chain of custody signed when relinquished and received?	<input checked="" type="checkbox"/>		<input type="checkbox"/> Picked Up at Secure Location <input type="checkbox"/> Client signed off at time of pickup
4	All samples checked when COC relinquished		<input checked="" type="checkbox"/>	
5	Chain of custody agrees with sample labels?	<input checked="" type="checkbox"/>		
6	Samples in proper container/bottle?	<input checked="" type="checkbox"/>		
7	Sample containers intact?	<input checked="" type="checkbox"/>		
8	Sufficient sample volume for indicated test?	<input checked="" type="checkbox"/>		
9	All samples received within holding time?	<input checked="" type="checkbox"/>		

Cooler Temperature Compliance Check

Temperature Blank Reading

If no trip blank is submitted individual temperatures must be listed by per SOP

Cooler Sample Temperature			
#1	#2	#3	Average
<u>6</u>	<u>6</u>	<u>4</u>	<u>6°C</u>

27°C

Reason for Elevated Temperature	
<input type="checkbox"/> - Ice Melted	<input type="checkbox"/> Insufficient Ice
<input type="checkbox"/> Samp. in boxes	<input type="checkbox"/> Sampled < 4hr
<input type="checkbox"/> Ice not req.	

Samples with Temp > 6°C - Comments

VOA Sample Inspection

Are bubbles present in any of the VOA vials?	Sample #	Small	Med.	Large	Samples with broken, cracked or leaking containers
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Samples with Unacceptable pH
-------------------------------------	------------------------------	-----------------------------	------------------------------

pH adjusted - Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc - Lot #(s) _____

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/05 Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

ANALYTICAL REPORT

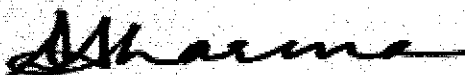
Job Number: 720-17-1

Job Description: Strough Family Trust

For:

ETIC Engineering, Inc.
1333 Broadway
Suite 1015
Oakland, CA 94612

Attention: Ms. Kathy Brandt



Dimple Sharma
Project Manager I
dsharma@stl-inc.com
08/24/2005

cc: Mr. Stephen Lao

METHOD SUMMARY

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Description	Lab Location	Method	Preparation Method
Matrix: Air-Florida			
Volatile Organic Compounds by GC/MS	720	SW846 8260B	
Purge and Trap with Tedlar Bags (72 Hour Hold)	720		SW846 5030B
Volatile Compounds by GC/MS	720	SW846 8260B	
Purge and Trap with Tedlar Bags (72 Hour Hold)	720		SW846 5030B
Matrix: Water			
Volatile Organic Compounds by GC/MS	720	SW846 8260B	
Purge-and-Trap	720		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	720	SW846 8015B	
Separatory Funnel Liquid-Liquid Extraction	720		SW846 3510C
Silica Gel Cleanup	720		SW846 3630C

LAB REFERENCES:

720

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

SAMPLE SUMMARY

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17-1	EFFLUENT	Water	08/15/2005 1100	08/15/2005 1506
720-17-2	MIDFLUENT	Water	08/15/2005 1110	08/15/2005 1506
720-17-3	INFLUENT	Water	08/15/2005 1120	08/15/2005 1506
720-17-4	OUTLET	Air-Florida Tedlar	08/15/2005 1130	08/15/2005 1506
720-17-5	INLET	Air-Florida Tedlar	08/15/2005 1140	08/15/2005 1506

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Login Number: 17

Check List Description: Standard Sample Receipt Checklist

Question	Answer	Failure Reason
Radioactivity is at or below background levels?	NA	
The cooler's custody seal is present and intact?	NA	
The cooler or samples do not appear to have been compromised or tampered with?	Yes	
Samples were received on Ice?	Yes	
Containers are not broken or leaking?	Yes	
There are no samples present with short holding-time parameters?	Yes	
Quick TAT was not requested?	Yes	
COC is present?	Yes	
COC is filled out in ink and legible?	Yes	
COC is filled out completely?	Yes	
COC includes all required signatures?	Yes	
Sample containers have legible labels?	Yes	
COC matches up to all samples in the cooler?	Yes	
Sample ID's on containers match exactly the sample ID's on COC?	Yes	
Appropriate sample containers are used?	Yes	
Sample collection date/times are provided?	Yes	
Samples are received within Holding Time?	Yes	
Cooler Temperature is acceptable: <6 degC, with no frozen samples?	Yes	
Cooler Temperature is recorded?	Yes	
Sample bottles are completely filled?	Yes	
There is sufficient volume for all the requested analyses?	Yes	
Appropriate sample preservatives were used?	Yes	
Aqueous inorganic sample pHs are acceptable?	Yes	
Aqueous semi-volatile organics sample pHs are acceptable?	Yes	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter?	Yes	
MS/MSD was not requested and not extra volume was sent?	Yes	
Samples do not require splitting or compositing?	Yes	
Multiphase samples are not present?	Yes	
Trip Blank was not provided/required?	Yes	
A sample discrepancy report is not needed?	Yes	

All questions are phrased so that "Yes" responses are in compliance, and "No" responses are not compliant and require a failure reason.

Analytical Data

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Client Sample ID: EFFLUENT

Lab Sample ID: 720-17-1

Date Sampled: 08/15/2005 1100

Client Matrix: Water

Date Received: 08/15/2005 1506

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-371

Instrument ID: Varian 3900

Preparation: 5030B

Lab File ID: c:\satumws\data\200508\08

Dilution: 1.0

Initial Weight/Volume: 10 mL

Date Analyzed: 08/19/2005 1638

Final Weight/Volume: 10 mL

Date Prepared: 08/19/2005 1638

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	103	77 - 121
1,2-Dichloroethane-d4	104	73 - 130

Analytical Data

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Client Sample ID: INLET

Lab Sample ID: 720-17-5

Date Sampled: 08/15/2005 1140

Client Matrix: Air-Florida

Date Received: 08/15/2005 1506

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-325

Instrument ID: Saturn 3900B

Preparation: 5030B

Lab File ID: c:\saturnws\data\200508\08

Dilution: 1.0

Initial Weight/Volume: 10 mL

Date Analyzed: 08/17/2005 0400

Final Weight/Volume: 10 mL

Date Prepared: 08/17/2005 0400

Analyte	Result (mg/m3)	Qualifier	RL
Benzene	33		0.50
Ethylbenzene	18		0.50
Toluene	160		0.50
Xylenes, Total	160		1.0
Gasoline	3100		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	92		77 - 121
1,2-Dichloroethane-d4	103		73 - 130

Analytical Data

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Client Sample ID: EFFLUENT

Lab Sample ID: 720-17-1

Date Sampled: 08/15/2005 1100

Client Matrix: Water

Date Received: 08/15/2005 1506

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch: 720-383	Instrument ID:	No equipment used
Preparation:	3630C	Prep Batch: 720-327	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	250 mL
Date Analyzed:	08/18/2005 1304		Final Weight/Volume:	1 mL
Date Prepared:	08/17/2005 1452		Injection Volume:	
			Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics (C10-C28)	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	99		60 - 130

Analytical Data

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Client Sample ID: MIDFLUENT

Lab Sample ID: 720-17-2

Date Sampled: 08/15/2005 1110

Client Matrix: Water

Date Received: 08/15/2005 1506

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch: 720-383	Instrument ID:	No equipment used
Preparation:	3630C	Prep Batch: 720-327	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	250 mL
Date Analyzed:	08/18/2005 1331		Final Weight/Volume:	1 mL
Date Prepared:	08/17/2005 1452		Injection Volume:	
			Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics (C10-C28)	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	97		60 - 130

Analytical Data

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Client Sample ID: INFLUENT

Lab Sample ID: 720-17-3

Date Sampled: 08/15/2005 1120

Client Matrix: Water

Date Received: 08/15/2005 1506

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch: 720-383	Instrument ID:	No equipment used
Preparation:	3630C	Prep Batch: 720-327	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	250 mL
Date Analyzed:	08/18/2005 1357		Final Weight/Volume:	1 mL
Date Prepared:	08/17/2005 1452		Injection Volume:	
			Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics (C10-C28)	2800		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	92		60 - 130

Analytical Data

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Client Sample ID: OUTLET

Lab Sample ID: 720-17-4

Client Matrix: Air-Florida

Date Sampled: 08/15/2005 1130

Date Received: 08/15/2005 1506

8260B Volatile Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-345

Instrument ID: No equipment used

Preparation: 5030B

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 10 mL

Date Analyzed: 08/18/2005 1644

Final Weight/Volume: 10 mL

Date Prepared: 08/18/2005 1644

Injection Volume:

Analyte	Result (ppm v/v)	Qualifier	RL
Benzene	ND		0.15
Toluene	0.39		0.13
Ethylbenzene	ND		0.11
Xylenes, Total	0.47		0.23
Gasoline	ND		14
Surrogate	%Rec		Acceptance Limits
Toluene-d8	96		77 - 121
1,2-Dichloroethane-d4	103		73 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-325				
LCS 720-325/1	Lab Control Spike	Air-Florida	8260B	
MB 720-325/2	Method Blank	Air-Florida	8260B	
720-17-4	OUTLET	Air-Florida	8260B	
720-17-5	INLET	Air-Florida	8260B	
Analysis Batch:720-371				
LCS 720-371/4	Lab Control Spike	Water	8260B	
LCSD 720-371/3	Lab Control Spike Duplicate	Water	8260B	
MB 720-371/5	Method Blank	Water	8260B	
720-17-1	EFFLUENT	Water	8260B	
720-17-2	MIDFLUENT	Water	8260B	
Analysis Batch:720-387				
LCS 720-387/3	Lab Control Spike	Water	8260B	
LCSD 720-387/2	Lab Control Spike Duplicate	Water	8260B	
MB 720-387/4	Method Blank	Water	8260B	
720-17-3	INFLUENT	Water	8260B	
GC Semi VOA				
Prep Batch: 720-327				
LCS 720-327/4-B	Lab Control Spike	Water	3630C	
LCSD 720-327/5-B	Lab Control Spike Duplicate	Water	3630C	
MB 720-327/6-B	Method Blank	Water	3630C	
720-17-1	EFFLUENT	Water	3630C	
720-17-2	MIDFLUENT	Water	3630C	
720-17-3	INFLUENT	Water	3630C	
Analysis Batch:720-383				
LCS 720-327/4-B	Lab Control Spike	Water	8015B	720-327
LCSD 720-327/5-B	Lab Control Spike Duplicate	Water	8015B	720-327
MB 720-327/6-B	Method Blank	Water	8015B	720-327
720-17-1	EFFLUENT	Water	8015B	720-327
720-17-2	MIDFLUENT	Water	8015B	720-327
720-17-3	INFLUENT	Water	8015B	720-327
Air Toxics				
Analysis Batch:720-345				
LCS 720-345/4	Lab Control Spike	Air-Florida	8260B	
MB 720-345/3	Method Blank	Air-Florida	8260B	
720-17-4	OUTLET	Air-Florida	8260B	
720-17-5	INLET	Air-Florida	8260B	

Quality Control Results

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Method Blank - Batch: 720-325

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-325/2
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1.0
Date Analyzed: 08/16/2005 2013
Date Prepared: 08/16/2005 2013

Analysis Batch: 720-325
Prep Batch: N/A
Units: mg/m3

Instrument ID: Saturn 3900B
Lab File ID: c:\satumws\data\200508\08
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	101	77 - 121
1,2-Dichloroethane-d4	92	73 - 130

Laboratory Control Sample - Batch: 720-325

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-325/1
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1.0
Date Analyzed: 08/16/2005 1947
Date Prepared: 08/16/2005 1947

Analysis Batch: 720-325
Prep Batch: N/A
Units: mg/m3

Instrument ID: Saturn 3900B
Lab File ID: c:\satumws\data\200508\08
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	25.0	26	104	69 - 129	
Toluene	25.0	27	107	70 - 130	

Surrogate	% Rec	Acceptance Limits
Toluene-d8	98	77 - 121
1,2-Dichloroethane-d4	84	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Method Blank - Batch: 720-371

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-371/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/19/2005 0727
Date Prepared: 08/19/2005 0727

Analysis Batch: 720-371
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900
Lab File ID: c:\saturmws\data\200508\081905
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	102	77 - 121
1,2-Dichloroethane-d4	101	73 - 130

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-371

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-371/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/19/2005 0659
Date Prepared: 08/19/2005 0659

Analysis Batch: 720-371
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900
Lab File ID: c:\saturmws\data\200508\081905
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-371/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/19/2005 1610
Date Prepared: 08/19/2005 1610

Analysis Batch: 720-371
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900
Lab File ID: c:\saturmws\data\200508\081905
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	103	81	69 - 129	24	25		
Toluene	113	89	70 - 130	24	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Method Blank - Batch: 720-327

Method: 8015B
Preparation: 3630C

Lab Sample ID: MB 720-327/6-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/18/2005 2345
Date Prepared: 08/17/2005 1452

Analysis Batch: 720-383
Prep Batch: 720-327
Units: ug/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics (C10-C28)	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	91	60 - 130

**Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-327**

Method: 8015B
Preparation: 3630C

LCS Lab Sample ID: LCS 720-327/4-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/18/2005 1212
Date Prepared: 08/17/2005 1452

Analysis Batch: 720-383
Prep Batch: 720-327
Units: ug/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-327/5-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/18/2005 1238
Date Prepared: 08/17/2005 1452

Analysis Batch: 720-383
Prep Batch: 720-327
Units: ug/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics (C10-C28)	78	86	60 - 130	9	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
o-Terphenyl	106		126		60 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ETIC Engineering, Inc.

Job Number: 720-17-1

Method Blank - Batch: 720-345

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-345/3
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1.0
Date Analyzed: 08/18/2005 1644
Date Prepared: 08/18/2005 1644

Analysis Batch: 720-345
Prep Batch: N/A
Units: ppm v/v

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result	Qual	RL
Benzene	ND		0.15
Toluene	ND		0.13
Ethylbenzene	ND		0.11
Xylenes, Total	ND		0.23
Gasoline	ND		14

Surrogate	% Rec	Acceptance Limits
Toluene-d8	101	77 - 121
1,2-Dichloroethane-d4	92	73 - 130

Laboratory Control Sample - Batch: 720-345

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-345/4
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1.0
Date Analyzed: 08/18/2005 1644
Date Prepared: 08/18/2005 1644

Analysis Batch: 720-345
Prep Batch: N/A
Units: ppm v/v

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	7.69	8.0	104	69 - 129	
Toluene	6.53	7.0	107	70 - 130	

Surrogate	% Rec	Acceptance Limits
Toluene-d8	98	77 - 121
1,2-Dichloroethane-d4	85	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report To Analysis Request

Attn: Kathy Brandt, Stephen Lao, Saurabh Gogate
 Company: ETIC Engineering
 Address: 1333 Broadway, Oakland, CA 94612
 Phone: 510-208-1800 x18 Bill To: ETIC Engineering
 Email: slao@eticeng.com S. Gogate@eticeng.com
 Sampled By: S. McNeil

Sample ID	Date	Time	Main	File	TPH EPA	Purgeable Aromatics	TEPH EPA	Fuel Tests	Purgeable Halocarbons	Volatile Organics	Semivolatiles	Oil and Grease	Pesticides	PCBs	PNAs	CAM17 Metals	Metals	WET (STLC)	Hexavalent Chromium	Spec Cond.	Alkalinity	Anions	Number of Containers
Effluent	8-15-05	11:00	H ₂ O	del	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Midfluent		11:10	H ₂ O	del	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Influent		11:20	H ₂ O	del	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Outlet		11:30	Air	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Inlet		11:40	Air	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
MW2			H ₂ O		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MW3			H ₂ O		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Project Info.				Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: Slough Family Trust				# of Containers:		Signature: S. McNeil		Signature:		Signature: A-C V. G. Amber	
Project#: TMSFT1 Task 10.8				Head Space:		Time: 8/15/05		Time:		Time:	
PO#:				Temp:		Printed Name: S. McNeil		Printed Name:		Printed Name:	
Credit Card#:				Conforms to record:		Date:		Date:		Date:	
TAT: 5 Day				Other:		Company: etic		Company:		Company:	
Report: Routine				Level 3		1) Received by: Joan Miller 8-15-05		2) Received by:		3) Received by:	
Special Instructions / Comments:				Level 4		Signature: Joan Miller		Signature:		Signature:	
				EDD		Time: 8-15-05		Time:		Time:	
				State Task Fund EDF		Printed Name: Joan Miller		Printed Name:		Printed Name:	
				Global ID T3600101841		Date:		Date:		Date:	
						Company: STI SF		Company:		Company:	

ETIC Oakland

September 20, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Kathy Brandt

Project#: TMSFT1 Task 10.8

Project: Strough Family Trust

Kathy

Attached is our report for your samples received on 09/07/2005 16:25

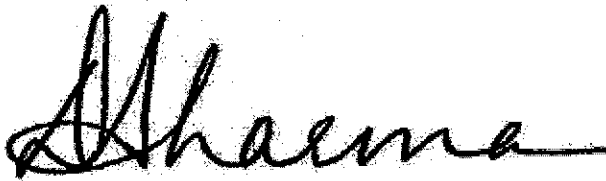
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/22/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	09/06/2005 16:30	Water	1
MIDFLUENT	09/06/2005 16:40	Water	2
INFLUENT	09/06/2005 16:50	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 19:13

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFLUENT	Lab ID:	2005-09-0132 - 1
Sampled:	09/06/2005 16:30	Extracted:	9/13/2005 22:23
Matrix:	Water	QC Batch#:	2005/09/13-02:65
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/13/2005 22:23	
Benzene	ND	0.50	ug/L	1.00	09/13/2005 22:23	
Toluene	ND	0.50	ug/L	1.00	09/13/2005 22:23	
Ethylbenzene	ND	0.50	ug/L	1.00	09/13/2005 22:23	
Total xylenes	ND	1.0	ug/L	1.00	09/13/2005 22:23	
Surrogate(s)						
1,2-Dichloroethane-d4	101.6	73-130	%	1.00	09/13/2005 22:23	
Toluene-d8	90.2	81-114	%	1.00	09/13/2005 22:23	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MIDFLUENT	Lab ID:	2005-09-0132 - 2
Sampled:	09/06/2005 16:40	Extracted:	9/13/2005 22:50
Matrix:	Water	QC Batch#:	2005/09/13-02 65
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/13/2005 22:50	
Benzene	ND	0.50	ug/L	1.00	09/13/2005 22:50	
Toluene	ND	0.50	ug/L	1.00	09/13/2005 22:50	
Ethylbenzene	ND	0.50	ug/L	1.00	09/13/2005 22:50	
Total xylenes	ND	1.0	ug/L	1.00	09/13/2005 22:50	
Surrogate(s)						
1,2-Dichloroethane-d4	102.3	73-130	%	1.00	09/13/2005 22:50	
Toluene-d8	91.3	81-114	%	1.00	09/13/2005 22:50	

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 19:13

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INFLUENT	Lab ID:	2005-09-0132 - 3
Sampled:	09/06/2005 16:50	Extracted:	9/13/2005 23:16
Matrix:	Water	QC Batch#:	2005/09/13-02.65
Analysis Flag: L2, pH: <2 (See Legend and Note Section.)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	10000	1000	ug/L	20.00	09/13/2005 23:16	
Benzene	310	10	ug/L	20.00	09/13/2005 23:16	
Toluene	1400	10	ug/L	20.00	09/13/2005 23:16	
Ethylbenzene	35	10	ug/L	20.00	09/13/2005 23:16	
Total xylenes	3000	20	ug/L	20.00	09/13/2005 23:16	
Surrogate(s)						
1,2-Dichloroethane-d4	101.4	73-130	%	20.00	09/13/2005 23:16	
Toluene-d8	90.9	81-114	%	20.00	09/13/2005 23:16	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 09/07/2005 16:25

Batch QC Report					
Prep(s): 5030B		Water		Test(s): 8260B	
Method Blank				QC Batch # 2005/09/13-02:65	
MB: 2005/09/13-02:65-022				Date Extracted: 09/13/2005 19:22	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/13/2005 19:22	
Benzene	ND	0.5	ug/L	09/13/2005 19:22	
Toluene	ND	0.5	ug/L	09/13/2005 19:22	
Ethylbenzene	ND	0.5	ug/L	09/13/2005 19:22	
Total xylenes	ND	1.0	ug/L	09/13/2005 19:22	
Surrogates(s)					
1,2-Dichloroethane-d4	98.4	73-130	%	09/13/2005 19:22	
Toluene-d8	89.8	81-114	%	09/13/2005 19:22	

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Batch QC Report			
Prep(s): 5030B	Water		Test(s): 8260B
Laboratory Control Spike	QC Batch # 2005/09/13-02-65		
LCS: 2005/09/13-02-65-056	Extracted: 09/13/2005	Analyzed: 09/13/2005 18:56	
LCSD			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	27.1		25.0	108.4			69-129	20		
Toluene	28.3		25.0	113.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	390		500	78.0			73-130			
Toluene-d8	470		500	94.0			81-114			

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/09/13-02.65
MS/MSD		Lab ID:	2005-09-0202-001
MS:	2005/09/13-02.65-031	Extracted:	09/13/2005
		Analyzed:	09/13/2005 21:31
		Dilution:	1.00
MSD:	2005/09/13-02.65-057	Extracted:	09/13/2005
		Analyzed:	09/13/2005 21:57
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	27.1	22.6	ND	25.0	108.4	90.4	18.1	69-129	20		
Toluene	26.1	22.9	ND	25.0	104.4	91.6	13.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	478	479		500	95.6	95.8		73-130			
Toluene-d8	458	452		500	91.6	90.4		81-114			

Severn Trent Laboratories, Inc.

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09/14/2005 19:13

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present
in the sample.

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	09/06/2005 16:30	Water	1
MIDFLUENT	09/06/2005 16:40	Water	2
INFLUENT	09/06/2005 16:50	Water	3

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/17/2005 11:25

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 09/07/2005 16:25

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	EFFLUENT	Lab ID:	2005-09-0132 - 1
Sampled:	09/06/2005 16:30	Extracted:	9/10/2005 09:34
Matrix:	Water	QC Batch#:	2005/09/10-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	1.00	09/13/2005 21:18	
<i>Surrogate(s)</i> o-Terphenyl	95.9	60-130	%	1.00	09/13/2005 21:18	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/17/2005 11:25

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MIDFLUENT	Lab ID:	2005-09-0132 - 2
Sampled:	09/06/2005 16:40	Extracted:	9/10/2005 09:34
Matrix:	Water	QC Batch#:	2005/09/10-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	1.00	09/13/2005 20:51	
<i>Surrogate(s)</i> o-Terphenyl	98.8	60-130	%	1.00	09/13/2005 20:51	

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	INFLUENT	Lab ID:	2005-09-0132 - 3
Sampled:	09/06/2005 16:50	Extracted:	9/10/2005 09:34
Matrix:	Water	QC Batch#:	2005/09/10-01-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	2900	50	ug/L	1.00	09/13/2005 20:24	
<i>Surrogate(s)</i> o-Terphenyl	97.1	60-130	%	1.00	09/13/2005 20:24	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/17/2005 11:25

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Batch QC Report					
Prep(s): 3510/8015M				Test(s): 8015M	
Method Blank		Water		QC Batch # 2005/09/10-01-10	
MB: 2005/09/10-01-10-001				Date Extracted: 09/10/2005 09:34	

Compound	Conc.	RL	Unit	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	09/13/2005 11:59	
Surrogates(s) o-Terphenyl	82.2	60-130	%	09/13/2005 11:59	

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Batch QC Report			
Prep(s): 3510/8015M		Test(s): 8015M	
Laboratory Control Spike		Water	QC Batch # 2005/09/10-01.10
LCS	2005/09/10-01.10-002	Extracted: 09/10/2005	Analyzed: 09/13/2005 11:32
LCSD	2005/09/10-01.10-003	Extracted: 09/10/2005	Analyzed: 09/13/2005 11:59

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
DRO (C10-C28)	795	749	1000	79.5	74.9	6.0	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	16.8	15.7	20.0	83.9	78.7		60-130	0		

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Samples Reported

Sample Name	Date Sampled	Matrix	Lab. #
EFF	09/06/2005 16:00	Air	4
INF	09/06/2005 16:10	Air	5

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/10/2005 18:01

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFF	Lab ID:	2005-09-0132-4
Sampled:	09/06/2005 16:00	Extracted:	9/9/2005 09:41
Matrix:	Air	QC Batch#:	2005/09/09-1G 64

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	09/09/2005 09:41	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	09/09/2005 09:41	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	09/09/2005 09:41	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	09/09/2005 09:41	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	09/09/2005 09:41	
<i>Surrogate(s)</i>									
1,2-Dichloroethane-d4	96.3	72-128	%			%	1	09/09/2005 09:41	
Toluene-d8	103.2	80-113	%			%	1	09/09/2005 09:41	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/10/2005 18:01

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INF	Lab ID:	2005-09-0132 - 5
Sampled:	09/06/2005 16:10	Extracted:	9/9/2005 10:01
Matrix:	Air	QC Batch#:	2005/09/09-1G-64
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3800	100	mg/m3	1100	14	ppmv	2	09/09/2005 10:01	
Benzene	34	1.0	mg/m3	10	0.15	ppmv	2	09/09/2005 10:01	
Toluene	200	1.0	mg/m3	52	0.13	ppmv	2	09/09/2005 10:01	
Ethylbenzene	19	1.0	mg/m3	4.3	0.11	ppmv	2	09/09/2005 10:01	
Total xylenes	180	2.0	mg/m3	41	0.23	ppmv	2	09/09/2005 10:01	
Surrogate(s)									
1,2-Dichloroethane-d4	90.1	72-128	%			%	2	09/09/2005 10:01	
Toluene-d8	105.4	80-113	%			%	2	09/09/2005 10:01	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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09/10/2005 18:01

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/09/09-1G.64
MB: 2005/09/09-1G.64-028		Date Extracted: 09/09/2005 08:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/09/2005 08:28	
Benzene	ND	0.5	ug/L	09/09/2005 08:28	
Toluene	ND	0.5	ug/L	09/09/2005 08:28	
Ethylbenzene	ND	0.5	ug/L	09/09/2005 08:28	
Total xylenes	ND	1.0	ug/L	09/09/2005 08:28	
Surrogates(s)					
1,2-Dichloroethane-d4	93.2	73-130	%	09/09/2005 08:28	
Toluene-d8	106.6	81-114	%	09/09/2005 08:28	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	
LCS 2005/09/09-1G 64-007		QC Batch # 2005/09/09-1G.64	
LCSD		Extracted: 09/09/2005	
		Analyzed: 09/09/2005 08:07	

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	27.2		25	108.8			69-129	20		
Toluene	27.3		25	109.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	433		500	86.6			73-130			
Toluene-d8	538		500	107.6			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Batch QC Report			
Prep(s):	5030B	Test(s): 8260B	
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/09/09-1G-64	
MS/MSD		Lab ID:	2005-08-0833 - 001
MS: 2005/09/09-1G-64-051	Extracted: 09/09/2005	Analyzed:	09/09/2005 12:51
		Dilution:	1.00
MSD: 2005/09/09-1G-64-012	Extracted: 09/09/2005	Analyzed:	09/09/2005 13:12
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	22.7	24.1	ND	25	90.8	96.4	6.0	69-129	20		
Toluene	22.9	24.4	ND	25	91.6	97.6	6.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	502	523		500	100.4	104.6		73-130			
Toluene-d8	522	526		500	104.4	105.2		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/10/2005 18:01

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 09/07/2005 16:25

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present
in the sample.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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09/10/2005 18:01

Page 7 of 7

2005-09-0132

Report To **Analysis Request**

Attn: Kathy Brandt, Stephen Liao, Saurabh Gogate		TPH: EPA <input type="checkbox"/> 8015M <input type="checkbox"/> 8015B <input type="checkbox"/> 8015C <input type="checkbox"/> 8015D <input type="checkbox"/> 8015E <input type="checkbox"/> 8015F <input type="checkbox"/> 8015G <input type="checkbox"/> 8015H Purgable Amines BTEX: EPA <input type="checkbox"/> 8011 <input type="checkbox"/> 8012 TERP: EPA 8015M <input type="checkbox"/> Slices Gal <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other Fuel Tests: EPA 8260 <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Organics <input type="checkbox"/> DCA <input type="checkbox"/> EOB <input type="checkbox"/> Ethanol Purgable Halocarbons (P-VOCs): EPA 8021 Volatile Organics: GCMS (VOCs) <input type="checkbox"/> EPA 8250B <input type="checkbox"/> 802A Semivolatile GCMS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 825 Oil and Grease <input type="checkbox"/> Petroleum (EPA 1631) <input type="checkbox"/> Total Pesticides: EPA 8061 <input type="checkbox"/> 808 <input type="checkbox"/> EPA 8062 <input type="checkbox"/> 809 PNAs by: <input type="checkbox"/> 8270 <input type="checkbox"/> 8310 CAM17 Metals (EPA 8010/11/12/13/14/15) Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other WET (STLO) <input type="checkbox"/> TOLP Hexavalent Chromium pH (24h hold time for H ₂ O) Spec Cond. <input type="checkbox"/> Absorbity TDS <input type="checkbox"/> TDS Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	
Company: ETIC Engineering			
Address: 1333 Broadway, Oakland, CA 94612			
Phone: 510-208-1800 x18 Bill To: ETIC Engineering			
Email: sliao@stlinc.com	Sampled By: <i>S. Mathur</i>		
sqogate@stlinc.com			

Sample ID	Date	Time	Matl	Pro	TPH	BTEX	TERP	Fuel	Halocarbons	VOCs	SVOCs	Oil/Grease	Pesticides	PNAs	Metals	WET	Hex Cr	pH	Spec Cond	Anions	Number of Containers
Effluent	9-6-05	430	H ₂ O		X		X														1
Midfluent		440	H ₂ O		X		X														1
Influent		450	H ₂ O		X		X														1
Dual Eff		400	Air		X																1
Inlet DIP		410	Air		X																1
MWB			H ₂ O		X		X														2
MWB			H ₂ O		X		X														2

Project Info.		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: Stough Family Trust		# of Containers:		Signature: <i>S. Mathur</i> Time: 9:00pm		Signature: <i>[Signature]</i> Time: [Time]		Signature: [Signature] Time: [Time]	
Project#: TMSFT1 Task 10.8		Head Space:		Printed Name: <i>S. Mathur</i> Date: 9-6-05		Printed Name: [Name] Date: 1-6-05		Printed Name: [Name] Date: [Date]	
PO#:		Temp: <i>2°C / 24°C</i>		Company: <i>ETIC</i>		Company: <i>STL SF</i>		Company: [Company]	
Credit Card#:		Confirms to record:		1) Received by: <i>[Signature]</i>		2) Received by: <i>[Signature]</i>		3) Received by: [Signature]	
TAT: <u>5</u> Day 72h 48h 24h Other:		Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Rind EDF		Signature: <i>[Signature]</i> Time: 10:20		Signature: <i>[Signature]</i> Time: 10:25		Signature: [Signature] Time: [Time]	
Special Instructions / Comments: <i>3.40m P(H₂O) 2-Am Bkn H</i>		<input type="checkbox"/> State Tank Rind EDF <input type="checkbox"/> Code 10 10600101014		Printed Name: [Name] Date: 09/07/05		Printed Name: <i>[Name]</i> Date: 9/7/05		Printed Name: [Name] Date: [Date]	
				Company: <i>STL SF</i>		Company: <i>STL SF</i>		Company: [Company]	

ETIC Oakland

October 27, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Kathy Brandt

Project#: TMSFT1 Task 10.8

Project: Strough Family Trust

Kathy

Attached is our report for your samples received on 10/10/2005 18:50

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/24/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 10/10/2005 18:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	10/10/2005 12:20	Water	1
MIDFLUENT	10/10/2005 12:40	Water	2
INFLUENT	10/10/2005 12:30	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	EFFLUENT	Lab ID:	2005-10-0187-1
Sampled:	10/10/2005 12:20	Extracted:	10/14/2005 15:44
Matrix:	Water	QC Batch#:	2005/10/14-04-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	1.00	10/17/2005 11:28	
Surrogate(s) o-Terphenyl	67.5	60-130	%	1.00	10/17/2005 11:28	

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MIDFLUENT	Lab ID:	2005-10-0187 -2
Sampled:	10/10/2005 12:40	Extracted:	10/18/2005 13:56
Matrix:	Water	QC Batch#:	2005/10/18-04-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	1.00	10/19/2005 11:12	
Surrogate(s) o-Terphenyl	67.4	60-130	%	1.00	10/19/2005 11:12	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

10/20/2005 16:05

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	INFLUENT	Lab ID:	2005-10-0187-3
Sampled:	10/10/2005 12:30	Extracted:	10/18/2005 13:56
Matrix:	Water	QC Batch#:	2005/10/18-04-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	1300	50	ug/L	1.00	10/19/2005 11:38	
<i>Surrogate(s)</i> o-Terphenyl	34.0	60-130	%	1.00	10/19/2005 11:38	S8

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report					
Prep(s): 3510/8015M	Water			Test(s): 8015M	
Method Blank dro, c12-24				QC Batch # 2005/10/14-04.10	
MB: 2005/10/14-04 10-001				Date Extracted: 10/14/2005 15:44	

Compound	Conc.	RL	Unit	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	10/17/2005 11:23	
Surrogates(s) o-Terphenyl	90.7	60-130	%	10/17/2005 11:23	

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report					
Prep(s): 3510/8015M				Test(s): 8015M	
Method Blank		Water		QC Batch # 2005/10/18-04-10	
MB: 2005/10/18-04-10-001				Date Extracted: 10/18/2005 13:56	

Compound	Conc.	RL	Unit	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	10/19/2005 11:12	
<i>Surrogates(s)</i> o-Terphenyl	73.7	60-130	%	10/19/2005 11:12	

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report			
Prep(s): 3510/8015M		Test(s): 8015M	
Laboratory Control Spike dro. c12-24		Water	QC Batch # 2005/10/14-04.10
LCS	2005/10/14-04.10-002	Extracted: 10/14/2005	Analyzed: 10/17/2005 11:51
LCSD	2005/10/14-04.10-003	Extracted: 10/14/2005	Analyzed: 10/17/2005 12:18

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
DRO (C10-C28)	675	754	1000	67.5	75.4	11.1	60-130	25		
Surrogates(s) o-Terphenyl	16.3	17.3	20.0	81.4	86.7		60-130	0		

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report			
Prep(s): 3510/8015M		Test(s): 8015M	
Laboratory Control Spike		Water	QC Batch # 2005/10/18-04-10
LCS: 2005/10/18-04-10-002	Extracted: 10/18/2005		Analyzed: 10/19/2005 11:39
LCSD: 2005/10/18-04-10-003	Extracted: 10/18/2005		Analyzed: 10/19/2005 12:07

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
DRO (C10-C28)	659	639	1000	65.9	63.9	3.1	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	15.0	14.8	20.0	75.1	74.0		60-130	0		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

10/20/2005 16:05

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Legend and Notes

Result Flag

S8

Surrogate recoveries lower than acceptance limits.

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	10/10/2005 12:20	Water	1
MIDFLUENT	10/10/2005 12:40	Water	2
INFLUENT	10/10/2005 12:30	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

10/26/2005 16:20

Page 1 of 11

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFLUENT	Lab ID:	2005-10-0187 - 1
Sampled:	10/10/2005 12:20	Extracted:	10/12/2005 20:09
Matrix:	Water	QC Batch#:	2005/10/12-02-69
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/12/2005 20:09	
Benzene	ND	0.50	ug/L	1.00	10/12/2005 20:09	
Toluene	ND	0.50	ug/L	1.00	10/12/2005 20:09	
Ethylbenzene	ND	0.50	ug/L	1.00	10/12/2005 20:09	
Total xylenes	ND	1.0	ug/L	1.00	10/12/2005 20:09	
Surrogate(s)						
1,2-Dichloroethane-d4	90.9	73-130	%	1.00	10/12/2005 20:09	
Toluene-d8	89.6	81-114	%	1.00	10/12/2005 20:09	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MIDFLUENT	Lab ID:	2005-10-0187 - 2
Sampled:	10/10/2005 12:40	Extracted:	10/13/2005 02:08
Matrix:	Water	QC Batch#:	2005/10/12-02:69
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/13/2005 02:08	
Benzene	ND	0.50	ug/L	1.00	10/13/2005 02:08	
Toluene	ND	0.50	ug/L	1.00	10/13/2005 02:08	
Ethylbenzene	ND	0.50	ug/L	1.00	10/13/2005 02:08	
Total xylenes	ND	1.0	ug/L	1.00	10/13/2005 02:08	
Surrogate(s)						
1,2-Dichloroethane-d4	99.3	73-130	%	1.00	10/13/2005 02:08	
Toluene-d8	91.5	81-114	%	1.00	10/13/2005 02:08	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFLUENT	Lab ID: 2005-10-0187-3
Sampled: 10/10/2005 12:30	Extracted: 10/14/2005 15:38
Matrix: Water	QC Batch#: 2005/10/14-0166
Analysis Flag: L2, pH: <2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	15000	500	ug/L	10.00	10/14/2005 15:38	
Benzene	380	5.0	ug/L	10.00	10/14/2005 15:38	
Toluene	2500	5.0	ug/L	10.00	10/14/2005 15:38	J3
Ethylbenzene	87	5.0	ug/L	10.00	10/14/2005 15:38	
Total xylenes	4000	10	ug/L	10.00	10/14/2005 15:38	
Surrogate(s)						
1,2-Dichloroethane-d4	112.7	73-130	%	10.00	10/14/2005 15:38	
Toluene-d8	111.5	81-114	%	10.00	10/14/2005 15:38	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report		
Prep(s): 5030B	Water	Test(s): 8260B
Method Blank		QC Batch # 2005/10/12-02.69
MB: 2005/10/12-02.69-031		Date Extracted: 10/12/2005 18:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/12/2005 18:31	
Benzene	ND	0.5	ug/L	10/12/2005 18:31	
Toluene	ND	0.5	ug/L	10/12/2005 18:31	
Ethylbenzene	ND	0.5	ug/L	10/12/2005 18:31	
Total xylenes	ND	1.0	ug/L	10/12/2005 18:31	
Surrogates(s)					
1,2-Dichloroethane-d4	93.6	73-130	%	10/12/2005 18:31	
Toluene-d8	96.0	81-114	%	10/12/2005 18:31	

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10/26/2005 16:20

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method: Blank		Water		QC Batch # 2005/10/14-01.66	
MB: 2005/10/14-01.66-059				Date Extracted: 10/14/2005 08:59	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/14/2005 08:59	
Gasoline	ND	50	ug/L	10/14/2005 08:59	
Benzene	ND	0.5	ug/L	10/14/2005 08:59	
Toluene	ND	0.5	ug/L	10/14/2005 08:59	
Ethylbenzene	ND	0.5	ug/L	10/14/2005 08:59	
Total xylenes	ND	1.0	ug/L	10/14/2005 08:59	
Surrogates(s)					
1,2-Dichloroethane-d4	106.8	73-130	%	10/14/2005 08:59	
Toluene-d8	108.2	81-114	%	10/14/2005 08:59	

Fuel Oxygenates by 8260B

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Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/10/12-02-69			
LCS:	2005/10/12-02-69-010		Extracted: 10/12/2005			Analyzed: 10/12/2005 18:10			
LCSD:	2005/10/12-02-69-052		Extracted: 10/12/2005			Analyzed: 10/12/2005 18:52			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.5	23.1	25.0	94.0	92.4	1.7	69-129	20		
Toluene	24.4	24.1	25.0	97.6	96.4	1.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	447	478	500	89.4	95.6		73-130			
Toluene-d8	471	468	500	94.2	93.6		81-114			

Fuel Oxygenates by 8260B

ETIC Oakland

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1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Water			QC Batch # 2005/10/14-01.66			
LCS	2005/10/14-01.66-049			Extracted: 10/14/2005			Analyzed: 10/14/2005 10:49			
LCSD	2005/10/14-01.66-026			Extracted: 10/14/2005			Analyzed: 10/14/2005 09:26			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.6	25.7	25.0	94.4	102.8	8.5	69-129	20		
Toluene	24.2	27.9	25.0	96.8	111.6	14.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	508	520	500	101.6	104.0		73-130			
Toluene-d8	524	562	500	104.8	112.4		81-114			

Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/10/12-02.69
EFFLUENT >> MS		Lab ID:	2005-10-0187-001
MS: 2005/10/12-02.69-026	Extracted: 10/12/2005	Analyzed:	10/12/2005 19:26
		Dilution:	10.00
MSD: 2005/10/12-02.69-048	Extracted: 10/12/2005	Analyzed:	10/12/2005 19:48
		Dilution:	10.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	23.2	23.2	ND	25.0	92.8	92.8	0.0	69-129	20		
Toluene	24.4	23.1	ND	25.0	97.6	92.4	5.5	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	438	410		500	87.6	82.0		73-130			
Toluene-d8	462	452		500	92.4	90.4		81-114			

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Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/10/14-01.66
MS/MSD		Lab ID	2005-10-0022 - 006
MS: 2005/10/14-01.66-024		Extracted: 10/14/2005	Analyzed: 10/14/2005 12:24
			Dilution: 5.00
MSD: 2005/10/14-01.66-060		Extracted: 10/14/2005	Analyzed: 10/14/2005 12:52
			Dilution: 5.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	424	430	308	125	92.8	97.6	5.0	69-129	20		
Toluene	156	158	24.9	125	104.9	106.5	1.5	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	531	519		500	106.2	103.8		73-130			
Toluene-d8	590	553		500	118.0	110.6		81-114		S7	

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

J3

Estimated value. The concentration exceeded the calibration of analysis.

S7

Surrogate recoveries higher than acceptance limits.

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	10/10/2005 12:50	Air	4
INLET	10/10/2005 12:52	Air	5

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Gas/BTEX Fuel Oxygenates by 8260B

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Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 10/10/2005 18:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	OUTLET	Lab ID:	2005-10-0187 - 4
Sampled:	10/10/2005 12:50	Extracted:	10/11/2005 01:16
Matrix:	Air	QC Batch#:	2005/10/10-2F-64

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	10/11/2005 01:16	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	10/11/2005 01:16	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	10/11/2005 01:16	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	10/11/2005 01:16	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	10/11/2005 01:16	
Surrogate(s)									
1,2-Dichloroethane-d4	109.0	72-128	%			%	1	10/11/2005 01:16	
Toluene-d8	106.7	80-113	%			%	1	10/11/2005 01:16	

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10/27/2005 14:56

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INLET	Lab ID:	2005-10-0187 - 5
Sampled:	10/10/2005 12:52	Extracted:	10/12/2005 03:08
Matrix:	Air	QC Batch#:	2005/10/11-2D-64
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6800	250	mg/m3	1900	70	ppmv	5	10/12/2005 03:08	
Benzene	57	2.5	mg/m3	18	0.77	ppmv	5	10/12/2005 03:08	
Toluene	330	2.5	mg/m3	86	0.65	ppmv	5	10/12/2005 03:08	
Ethylbenzene	35	2.5	mg/m3	7.9	0.57	ppmv	5	10/12/2005 03:08	
Total xylenes	300	5.0	mg/m3	68	1.1	ppmv	5	10/12/2005 03:08	
Surrogate(s)									
1,2-Dichloroethane-d4	104.6	72-128	%			%	5	10/12/2005 03:08	
Toluene-d8	108.9	80-113	%			%	5	10/12/2005 03:08	

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10/27/2005 14:56

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch #: 2005/10/10-2F-64
MB: 2005/10/10-2F-64-004		Date Extracted: 10/10/2005 18:04

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/10/2005 18:04	
Benzene	ND	0.5	ug/L	10/10/2005 18:04	
Toluene	ND	0.5	ug/L	10/10/2005 18:04	
Ethylbenzene	ND	0.5	ug/L	10/10/2005 18:04	
Total xylenes	ND	1.0	ug/L	10/10/2005 18:04	
Surrogates(s)					
1,2-Dichloroethane-d4	102.0	73-130	%	10/10/2005 18:04	
Toluene-d8	108.8	81-114	%	10/10/2005 18:04	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank		Water	QC Batch # 2005/10/11-2D.64
MB: 2005/10/11-2D.64-051			Date Extracted: 10/11/2005 19:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/11/2005 19:51	
Benzene	ND	0.5	ug/L	10/11/2005 19:51	
Toluene	ND	0.5	ug/L	10/11/2005 19:51	
Ethylbenzene	ND	0.5	ug/L	10/11/2005 19:51	
Total xylenes	ND	1.0	ug/L	10/11/2005 19:51	
Surrogates(s)					
1,2-Dichloroethane-d4	100.6	73-130	%	10/11/2005 19:51	
Toluene-d8	104.2	81-114	%	10/11/2005 19:51	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Laboratory Control Spike		Water		QC Batch # 2005/10/10-2F-64	
LCS	2005/10/10-2F-64-022	Extracted:	10/10/2005	Analyzed:	10/10/2005 17:22
LCSD	2005/10/10-2F-64-043	Extracted:	10/10/2005	Analyzed:	10/10/2005 17:43

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	27.1	27.1	25	108.4	108.4	0.0	69-129	20		
Toluene	27.4	26.7	25	109.6	106.8	2.6	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	501	479	500	100.2	95.8		73-130			
Toluene-d8	549	533	500	109.8	106.6		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Laboratory Control Spike	Water	QC Batch # 2005/10/11-2D:64
LCS: 2005/10/11-2D:64-030	Extracted: 10/11/2005	Analyzed: 10/11/2005 19:30
LCSD		

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.1		25	100.4			69-129	20		
Toluene	25.9		25	103.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	465		500	93.0			73-130			
Toluene-d8	520		500	104.0			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

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1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/10/10-2F-64
MS/MSD		Lab ID:	2005-10-0147-001
MS:	2005/10/10-2F-64-037	Extracted:	10/10/2005
		Analyzed:	10/10/2005-19:00
		Dilution:	1.00
MSD:	2005/10/10-2F-64-021	Extracted:	10/10/2005
		Analyzed:	10/10/2005-19:21
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	24.6	25.7	ND	25	98.4	102.8	4.4	69-129	20		
Toluene	24.8	25.7	ND	25	99.2	102.8	3.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	510	505		500	102.0	101.0		73-130			
Toluene-d8	534	535		500	106.8	107.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

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1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/10/11-2D-64
MS/MSD			Lab ID: 2005-10-0190-004
MS: 2005/10/11-2D-64-054		Extracted: 10/11/2005	Analyzed: 10/11/2005 21:54
			Dilution: 1.00
MSD: 2005/10/11-2D-64-015		Extracted: 10/11/2005	Analyzed: 10/11/2005 22:15
			Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	25.3	24.9	ND	25	101.2	99.6	1.6	69-129	20		
Toluene	25.2	25.2	ND	25	100.8	100.8	0.0	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	525	498		500	105.0	99.6		73-130			
Toluene-d8	554	542		500	110.9	108.4		81-114			

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10/27/2005 14:56

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 10/10/2005 18:50

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present
in the sample.

**Quarterly Monitoring
Laboratory Analytical Results**

ETIC Oakland

October 14, 2005

1333 Broadway, Suite 1015

Oakland, CA 94612

Attn.: Kathy Brandt

Project#: TMSFT1 TASK11

Project: Strough Family Trust

Kathy

Attached is our report for your samples received on 09/28/2005 15:50

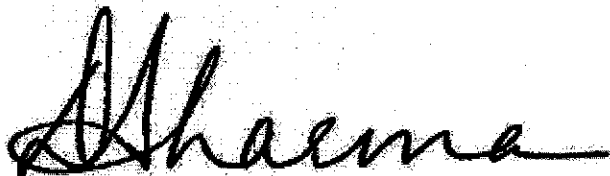
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/12/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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Fuel Oxygenates by 8260B

ETIC Oakland

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1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 TASK11

Strough Family Trust

Received: 09/28/2005 15:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW1	09/26/2005 18:00	Water	1
MW2	09/26/2005 17:16	Water	2
MW3	09/26/2005 18:00	Water	3
MW4	09/26/2005 17:22	Water	4

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW1	Lab ID:	2005-09-0697 - 1
Sampled:	09/26/2005 18:00	Extracted:	9/30/2005 01:40
Matrix:	Water	QC Batch#:	2005/09/29-02-71
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/30/2005 01:40	Q6
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	09/30/2005 01:40	
Benzene	ND	0.50	ug/L	1.00	09/30/2005 01:40	
Toluene	ND	0.50	ug/L	1.00	09/30/2005 01:40	
Ethylbenzene	ND	0.50	ug/L	1.00	09/30/2005 01:40	
Total xylenes	ND	1.0	ug/L	1.00	09/30/2005 01:40	
Surrogate(s)						
1,2-Dichloroethane-d4	81.1	73-130	%	1.00	09/30/2005 01:40	
Toluene-d8	87.7	81-114	%	1.00	09/30/2005 01:40	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW2	Lab ID:	2005-09-0697-2
Sampled:	09/26/2005 17:16	Extracted:	9/30/2005 02:07
Matrix:	Water	QC Batch#:	2005/09/29 02:71
Analysis Flag: L2, pH: <2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	31000	5000	ug/L	100.00	09/30/2005 02:07	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	100.00	09/30/2005 02:07	
Benzene	570	50	ug/L	100.00	09/30/2005 02:07	
Toluene	4000	50	ug/L	100.00	09/30/2005 02:07	
Ethylbenzene	620	50	ug/L	100.00	09/30/2005 02:07	
Total xylenes	6200	100	ug/L	100.00	09/30/2005 02:07	
Surrogate(s)						
1,2-Dichloroethane-d4	79.2	73-130	%	100.00	09/30/2005 02:07	
Toluene-d8	86.0	81-114	%	100.00	09/30/2005 02:07	

Fuel Oxygenates by 8260B

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Oakland, CA 94612

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Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW3	Lab ID: 2005-09-0697 - 3
Sampled: 09/26/2005 18:00	Extracted: 9/30/2005 00:10
Matrix: Water	QC Batch#: 2005/09/29-02.64
Analysis Flag: L2; pH: <2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	79000	5000	ug/L	100.00	09/30/2005 00:10	
Methyl tert-butyl ether (MTBE)	270	50	ug/L	100.00	09/30/2005 00:10	
Benzene	4000	50	ug/L	100.00	09/30/2005 00:10	
Toluene	17000	50	ug/L	100.00	09/30/2005 00:10	
Ethylbenzene	1900	50	ug/L	100.00	09/30/2005 00:10	
Total xylenes	17000	100	ug/L	100.00	09/30/2005 00:10	
Surrogate(s)						
1,2-Dichloroethane-d4	104.7	73-130	%	100.00	09/30/2005 00:10	
Toluene-d8	109.2	81-114	%	100.00	09/30/2005 00:10	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/30/2005 19:41

Fuel Oxygenates by 8260B

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Attn.: Kathy Brandt

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 TASK11
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Received: 09/28/2005 15:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW4	Lab ID:	2005-09-0697-4
Sampled:	09/26/2005 17:22	Extracted:	9/29/2005 20:45
Matrix:	Water	QC Batch#:	2005/09/29-0271
Analysis Flag: L2, pH: <2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	960	500	ug/L	10.00	09/29/2005 20:45	Q6
Methyl tert-butyl ether (MTBE)	660	5.0	ug/L	10.00	09/29/2005 20:45	
Benzene	ND	5.0	ug/L	10.00	09/29/2005 20:45	
Toluene	ND	5.0	ug/L	10.00	09/29/2005 20:45	
Ethylbenzene	ND	5.0	ug/L	10.00	09/29/2005 20:45	
Total xylenes	ND	10	ug/L	10.00	09/29/2005 20:45	
Surrogate(s)						
1,2-Dichloroethane-d4	81.0	73-130	%	10.00	09/29/2005 20:45	
Toluene-d8	85.6	81-114	%	10.00	09/29/2005 20:45	

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1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

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Received: 09/28/2005 15:50

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method: Blank		Water	QC Batch #: 2005/09/29-02:64
MB: 2005/09/29-02:64-031			Date Extracted: 09/29/2005 22:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/29/2005 22:31	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/29/2005 22:31	
Benzene	ND	0.5	ug/L	09/29/2005 22:31	
Toluene	ND	0.5	ug/L	09/29/2005 22:31	
Ethylbenzene	ND	0.5	ug/L	09/29/2005 22:31	
Total xylenes	ND	1.0	ug/L	09/29/2005 22:31	
Surrogates(s)					
1,2-Dichloroethane-d4	103.2	73-130	%	09/29/2005 22:31	
Toluene-d8	106.0	81-114	%	09/29/2005 22:31	

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Oakland, CA 94612
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Received: 09/28/2005 15:50

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2005/09/29-02.71
MB: 2005/09/29-02.71-011			Date Extracted: 09/29/2005 20:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/29/2005 20:11	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/29/2005 20:11	
Benzene	ND	0.5	ug/L	09/29/2005 20:11	
Toluene	ND	0.5	ug/L	09/29/2005 20:11	
Ethylbenzene	ND	0.5	ug/L	09/29/2005 20:11	
Total xylenes	ND	1.0	ug/L	09/29/2005 20:11	
Surrogates(s)					
1,2-Dichloroethane-d4	82.4	73-130	%	09/29/2005 20:11	
Toluene-d8	86.6	81-114	%	09/29/2005 20:11	

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Received: 09/28/2005 15:50

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike		Water	QC Batch # 2005/09/29-02-64
LCS: 2005/09/29-02-64-047		Extracted: 09/29/2005	Analyzed: 09/29/2005 19:47
LCSD			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.4		25.0	97.6			65-165	20		
Benzene	25.9		25.0	103.6			69-129	20		
Toluene	27.5		25.0	110.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	450		500	90.0			73-130			
Toluene-d8	540		500	108.0			81-114			

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09/30/2005 19:41

Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015
Oakland, CA 94612
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Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Water	QC Batch # 2005/09/29-02.71	
LCS 2005/09/29-02.71-044	Extracted: 09/29/2005	Analyzed: 09/29/2005 19:44	
LCSD			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.8		25.0	99.2			65-165	20		
Benzene	24.6		25.0	98.4			69-129	20		
Toluene	25.5		25.0	102.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	380		500	76.0			73-130			
Toluene-d8	446		500	89.2			81-114			

Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Batch QC Report			
Prep(s)	5030B		Test(s) 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/09/29-02.64
MW3 >> MS			Lab ID 2005-09-0697-003
MS	2005/09/29-02.64-028	Extracted: 09/29/2005	Analyzed: 09/29/2005 23:28
			Dilution 100.00
MSD	2005/09/29-02.64-049	Extracted: 09/29/2005	Analyzed: 09/29/2005 23:49
			Dilution 100.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	2650	2420	192	2500	98.3	89.1	9.8	65-165	20		
Benzene	6260	6310	2840	2500	136.8	138.8	1.5	69-129	20	M4	M4
Toluene	18900	19700	11100	2500	312.0	344.0	9.8	70-130	20	M4	M4
Surrogate(s)											
1,2-Dichloroethane-d4	494	492		500	98.8	98.4		73-130			
Toluene-d8	551	559		500	110.2	111.8		81-114			

Fuel Oxygenates by 8260B

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1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Batch QC Report			
Prep(s)	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water:	QC Batch # 2005/09/29-02.71
MW4 >> MS			Lab ID: 2005-09-0697-004
MS: 2005/09/29-02.71-012		Extracted: 09/29/2005	Analyzed: 09/29/2005 21:12
			Dilution: 10.00
MSD: 2005/09/29-02.71-039		Extracted: 09/29/2005	Analyzed: 09/29/2005 21:39
			Dilution: 10.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	919	928	658	250	104.4	108.0	3.4	65-165	20		
Benzene	228	245	0.710	250	90.9	97.7	7.2	69-129	20		
Toluene	236	247	1.63	250	93.7	98.1	4.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	383	374		500	76.6	74.8		73-130			
Toluene-d8	435	435		500	87.0	87.0		81-114			

Fuel Oxygenates by 8260B

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Oakland, CA 94612

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Project: TMSFT1 TASK11

Strough Family Trust

Received: 09/28/2005 15:50

Legend and Notes

Sample Comment

Lab ID: 2005-09-0697-1

Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantified as gasoline, the concentration would be 60ug/L.

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

M4

MS/MSD spike recoveries were above acceptance limits. See blank spike (LCS).

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

TEPH w/ Silica Gel Clean-up

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Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW1	09/26/2005 18:00	Water	1
MW2	09/26/2005 17:16	Water	2
MW3	09/26/2005 18:00	Water	3
MW4	09/26/2005 17:22	Water	4

TEPH w/ Silica Gel Clean-up

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1333 Broadway, Suite 1015

Oakland, CA 94612

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Project: TMSFT1 TASK11

Strough Family Trust

Received: 09/28/2005 15:50

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW1	Lab ID:	2005-09-0697 - 1
Sampled:	09/26/2005 18:00	Extracted:	10/7/2005 07:30
Matrix:	Water	QC Batch#:	2005/10/07-02:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Motor Oil	ND	500	ug/L	1.00	10/08/2005 22:23	
DRO (C10-C28)	ND	50	ug/L	1.00	10/08/2005 22:23	
Surrogate(s)						
o-Terphenyl	76.1	60-130	%	1.00	10/08/2005 22:23	

TEPH w/ Silica Gel Clean-up

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Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW2	Lab ID:	2005-09-0697-2
Sampled:	09/26/2005 17:16	Extracted:	10/7/2005 07:30
Matrix:	Water	QC Batch#:	2005/10/07-02 10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Motor Oil	28000	10000	ug/L	20.00	10/10/2005 13:25	Q3
DRO (C10-C28)	63000	1000	ug/L	20.00	10/10/2005 13:25	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	20.00	10/10/2005 13:25	S3

TEPH w/ Silica Gel Clean-up

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Project: TMSFT1 TASK11

Strough Family Trust

Received: 09/28/2005 15:50

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW3	Lab ID:	2005-09-0697 - 3
Sampled:	09/26/2005 18:00	Extracted:	10/7/2005 07:30
Matrix:	Water	QC Batch#:	2005/10/07-02-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Motor Oil	540	500	ug/L	1.00	10/08/2005 23:17	Q3
DRO (C10-C28)	5100	50	ug/L	1.00	10/08/2005 23:17	
Surrogate(s)						
o-Terphenyl	73.1	60-130	%	1.00	10/08/2005 23:17	

TEPH w/ Silica Gel Clean-up

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Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW4	Lab ID:	2005-09-0697 - 4
Sampled:	09/26/2005 17:22	Extracted:	10/7/2005 07:30
Matrix:	Water	QC Batch#:	2005/10/07 02:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Motor Oil	ND	500	ug/L	1.00	10/08/2005 23:44	
DRO (C10-C28)	ND	50	ug/L	1.00	10/08/2005 23:44	
Surrogate(s)						
o-Terphenyl	80.9	60-130	%	1.00	10/08/2005 23:44	

TEPH w/ Silica Gel Clean-up

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Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Batch QC Report			
Prep(s): 3510/8015M			Test(s): 8015M
Method Blank		Water	QC Batch # 2005/10/07-02-10
MB: 2005/10/07-02-10-001			Date Extracted: 10/07/2005 07:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Motor Oil	ND	500	ug/L	10/08/2005 16:29	
DRO (C10-C28)	ND	50	ug/L	10/08/2005 16:29	
Surrogates(s)					
o-Terphenyl	77.9	60-130	%	10/08/2005 16:29	

TEPH w/ Silica Gel Clean-up

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Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Batch QC Report					
Prep(s): 3510/8015M			Test(s): 8015M		
Laboratory Control Spike		Water		QC Batch # 2005/10/07-02.10	
LCS	2005/10/07-02.10-002	Extracted:	10/07/2005	Analyzed:	10/08/2005 15:34
LCSD	2005/10/07-02.10-003	Extracted:	10/07/2005	Analyzed:	10/08/2005 16:01

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
DRO (C10-C28)	772	815	1000	77.2	81.5	5.4	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	15.4	16.4	20.0	77.2	81.9		60-130	0		

TEPH w/ Silica Gel Clean-up

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Project: TMSFT1 TASK11
Strough Family Trust

Received: 09/28/2005 15:50

Legend and Notes

Result Flag

Q3

Quantit. of unknown hydrocarbon(s) in sample based on motor oil.

S3

Surrogate recovery not reportable due to required dilution.

